

Lee County Board Of County Commissioners
Agenda Item Summary

Blue Sheet No. 20040790

1. REQUESTED MOTION:

ACTION REQUESTED: Approve award of Formal Quotation No.: **Q-040296 ADDITIONAL CHEMICALS FOR UTILITIES** to the vendors as listed on the attached Lee County tabulation sheet. In the event that the low quoters are unable to establish the effectiveness of their products, request the Purchasing Director be given authority to act on behalf of the Board in the event of vendor non-compliance so that the Purchasing Director can proceed to the next low quoter(s). This quotation shall be in effect for one (1) year, or until new quotes are taken and awarded. **Also**, request authority to renew this quote for four (4) additional one-year periods at the same terms and conditions if in the best interest of Lee County.

WHY ACTION IS NECESSARY: As this expenditure will exceed \$50,000; Board approval is required.

WHAT ACTION ACCOMPLISHES: Provides the purchase of chemicals on an as needed basis for various Lee County Water and Wastewater facilities within the Lee County Utilities Department. Annual estimated savings to ratepayers: \$400,000.

| | | |
|--|--|--|
| | C10D | 3. MEETING DATE: <u>06-29-2004</u> |
| 1. AGENDA: | 5. REQUIREMENT/PURPOSE: (Specify) | 6. REQUESTOR OF INFORMATION: |
| <input checked="" type="checkbox"/> CONSENT | <input type="checkbox"/> STATUTE | A. COMMISSIONER _____ |
| <input type="checkbox"/> ADMINISTRATIVE | <input type="checkbox"/> ORDINANCE | B. DEPARTMENT <u>UTILITIES</u> |
| <input type="checkbox"/> APPEALS | <input checked="" type="checkbox"/> ADMIN. CODE <u>AC-4-1</u> | C. DIVISION _____ |
| <input type="checkbox"/> PUBLIC | <input type="checkbox"/> OTHER | B Y <u>Rick Diaz, F.E. Director</u> |
| <input type="checkbox"/> WALK ON | | <u>6/11/04</u> |
| <input type="checkbox"/> TIME REQUIRED: | | |

BACKGROUND: Sealed quotes were received by the Division of Purchasing On May 18, 2004. On that date twenty-three (23) responses were received. Two (2) were "no bids". After review, recommendation was made to award to the low quoters meeting all specification requirements as listed on the attached Lee County tabulation sheet. Funding will come from the individual department or division's budget whom will be responsible for monitoring their individual expenditures.

Funds are available: Acct Strings OD536275240; OD536015240; OD536235240; OD536265240; OD536245240; OD536085240; OD536195240; OD536255240; OD536185240; OD536055240; OD536285240; OD536165240;

Please see attachments:

- (1) Tabulation Sheet
- (2) Specifications
- (3) Vendor's Submitted Quotation - General Chemical
- (4) Vendor's Submitted Quotation - LaRoche Industries
- (5) Vendor's Submitted Quotation - Dumont
- (6) Vendor's Submitted Quotation - Chemical Lime
- (7) Vendor's Submitted Quotation - Polydyne
- (8) Vendor's Submitted Quotation - Fort Bend Services
- (9) Vendor's Submitted Quotation - Ciba Specialty Chemicals
- (10) Vendor's Submitted Quotation - Calciquest
- (11) Vendor's Submitted Quotation - Altivia
- (12) Vendor's Submitted Quotation - Allied Universal
- (13) Department's Recommendation

3. MANAGEMENT RECOMMENDATIONS:

9. RECOMMENDED APPROVAL:

| A Department Director | B Purchasing or Contracts | C Human Resources | D Other | E County Attorney | F Budget Services | G County Manager | | | | |
|-----------------------------|---------------------------------|-------------------------|------------|-------------------------|--|---------------------|-----|------|----|--|
| | | N/A | N/A | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>OA</td> <td>ADM</td> <td>Risk</td> <td>CC</td> </tr> </table> | OA | ADM | Risk | CC | |
| OA | ADM | Risk | CC | | | | | | | |

10. COMMISSION ACTION:

- APPROVED**
 DENIED
 DEFERRED
 OTHER

Rec. by COATY

Date: 6/11/04

Time: 1:15 pm

Forwarded To: CC

6/15/04

RECEIVED BY
COUNTY ADMIN: PS

6/15/04

9:30 a.m. 567

COUNTY ADMIN
FORWARDED TO: PR

6-16-04

2pm

**MEMORANDUM
FROM
THE DIVISION OF PURCHASING**

DATE: June 11, 2004

TO: RICK DIAZ
UTILITIES DIRECTOR

Janet Sheehan
FROM: JANET SHEEHAN, CPPB
PURCHASING DIRECTOR

RE: BLUE SHEET # 20040790

PROJECT: Additional Chemicals for Utilities (Annual)

TYPE: Formal Quote No.: Q-040296

AWARDED TO: General Chemical; LaRoche Industries; Dumont; Chemical Lime; Polydyne; Fort Bend Services; Ciba Specialty Chemicals; Calciquest; Altivia; and Allied Universal.

When you have finished your review of this package, please forward it to Kristie Kroslack in the County Attorney's Office.

If there *are* any questions or concerns with this package, please contact Chevone Peterson at 344-5450.

TRAINING SESSIONS

Each awarded supplier will be required to provide, at no additional cost to the County, two 4-hour training sessions each year, that meet the federal and state safety and right to know training requirements. The education and instruction of the County's operations personnel shall be by a qualified instructor familiar with the safe handling practices associated with the chemical being discussed. Session dates, times and course outlines should be submitted by the supplier as **part** of their bid package, and approved by the County. Failure to provide this service will be considered a default of the contract. The awarded vendor(s) shall be required to provide a letter certifying that the course outline meets the requirements listed above.

The training sessions will be held in one central location in Lee County which will be determined by Lee County Utilities. The awarded suppliers will be responsible for travel, lodging, meals and training materials costs.

SAFETY

The supplier's truck must be equipped to safely handle and unload product/products

DELIVERY LOCATIONS AND CONTACTS

| | |
|---|--|
| Corkscrew Water Treatment Plant 16101 Alico Road Esteros, FL 33913 | Phone 239/267-8228 Fax 239/267-8268 Contact Person: Richard Hawes |
| Green Meadows Water Plant 13001 Alico Road Fort Myers, FL 33913 | Phone: (239) 267-1151 Fax: (239) 267-7105 Contact Person: Val Sikora |
| Waterway Water Plant 4271 Saint Claire Ave Fort Myers, FL 33903 | Phone: (239) 995-1861 Fax : (239) 995-0098 Contact Person: Lenny Sword |
| College Parkway Water Plant 7401 College Parkway Fort Myers, FL 33907 | Phone: (239) 936-0247 Fax: (239) 936-0549 Contact Person: Val Sikora |
| Waterway Estates WWTP 1667 Inlet Drive N. Fort Myers, FL 33903 | Phone: (239) 995-6585 Fax: (239) 995-0816 Contact Person : Michael Hansinger |
| Fiesta Village WWTP 1366 San Souci Drive Fort Myers, FL 33919 | Phone : (239) 481-1953 Fax: (239) 446-0515 Contact Person : Dennis Lang |
| Gateway Services WWTP 13240 Commerce Lakes Drive Fort Myers, FL 33913 | Phone: (239) 229-8698 Contact Person: Richard Blasetti |

San Carlos WWTP
19910 S. Tamiami Trail
Estero, FL 33928

Phone: (239) 267-0387
Contact Person: Jim McPhillips

Three Oaks WWTP
18521 Three Oaks Pkwy.
Fort Myers, FL 33912

Phone: (239) 267-0387
Contact Person: Jim McPhillips

Pinewoods WTP
11950 Corkscrew Road
Estero, FL 33928

Phone: (239) 992-1319
Fax: (239) 992-9095
Contact Person: Damon Hardy

Bartow WTP
18513 Bartow Blvd.
Fort Myers, FL 33912

Phone: (239) 267-7747
Fax: (239) 267-7997
Contact Person: Damon Hardy

Olga WTP
1450 Werner Drive
Alva, FL 33920

Phone: (239) 694-4038
Fax: (239) 694-2370
Contact Person: John Gibson

Fort Myers Beach WWTP
17155 Pine Ridge Road
Fort Myers Beach, FL 33931

Phone: (239) 466-8039
Fax: (239) 466-3952
Contact Person: Ben Wright

High Point WWTP
9001 Sedgefield Road
Fort Myers, FL 33917

Phone: (239) 282-0025
Fax: (239) 282-0026
Contact Person : Mario Beauchamp

Pine Island WWTP
6928 Stringfellow Road
St. James City, FL 33956

Phone: (239) 282-0025
Fax: (239) 282-0026
Contact Person: Mario Beachamp

North Reservoir
7351 Samville Road
Fort Myers, FL 33917

Phone: (239) 694-4038
Fax: (239) 694-2370
Contact Person: John Gibson

Highpoint WWTP
9001 Sedgefield Road
North Fort Myers, FL 33917

Phone: (239) 282-0025
Fax: (239) 282-0026
Contact Person: Mario Beauchamp

LIFT STATIONS

Lift Station 332
1930 Custom Drive
Fort Myers, FL 33907

Lift Station 371
5300-5360 Summerlin Road
Fort Myers, FL 33919

Three *Oaks* Sewer Plant
18521 Three *Oaks* Pkwy
Fort Myers, FL 33912
(two delivery locations)

Lift Station 263
806 South Street
Fort Myers, FL 33931

Lift Station 271
6345 Estero Blvd.
Fort Myers Beach, FL 33931

Detar Warehouse
5 180 Tice Street
Fort Myers, FL 33905

Contact for all lift stations and Detar Warehouse: David Sabiston – (239) 707-1875
Rich Simms – (239) 707-1880
Office – (239) 693-1729

DESIGNATED CONTACT

The awarded vendor shall appoint a person or persons to act as a primary contact for all County departments. This person or back-up shall be readily available during normal work hours by phone or in person, and shall be knowledgeable of the terms and procedures involved.

CONTRACT

A purchase order will serve as the contract. If your firm will require Lee County to sign a contract of any type, please include that contract with your quotation.

ADDITIONAL REQUIREMENTS

Vendors must provide MSDS sheets for all products to be provided, prior to startup of this contract.

Vendors agree to conform to any and all State and Federal regulations pertaining to chemicals, and to assist Lee County in doing so (Chapter 442 F.S.).

All Chemicals must be approved by the National Sanitation Foundation as applicable. Supplemental documentation (should be submitted with your quote) shall include:

1. Drinking water additives and treatment chemicals, including chemicals used to regenerate ion-exchange resins or generate disinfectants on site at treatment plants, shall conform to one of the following:
 - a. NSF International Standard 60 as adopted in Rule 62-555.335, F.A.C.
 - b. The standards in Water Chemicals Codex as adopted in Rule 612-555.335 F.A.C.; or
 - c. The standards in Food Chemicals Codex as adopted in Rule 62-555.335, F.A.C.

All products shall be provided exactly as specified. Any variations will not be accepted.

Vendors do not need to quote on all chemicals in order to be considered for award; however, each chemical has its own specific requirements which vary by location (delivery times, etc.) with which the awarded vendor must comply.

SUMMARY REPORTS

Upon completion of each six-month period of the quote, the awarded vendor(s) shall be responsible for furnishing a summary report to Purchasing. This report shall include the previous six months history, showing at a minimum, the following information:

- 1) Total dollars expended per item,
- 2) Total quantity of each item purchased

MAJOR BREAKDOWNS/NATURAL DISASTERS

Lee County requires that the awarded vendor provide the name of a contact person and phone number which will afford Lee County access twenty-four hours per day, 365 days per year, of this product or service in the event of major breakdowns or natural disasters.

Lee County reserves the right to purchase the product or service listed in this quotation elsewhere in an emergency situation.

LOCAL BIDDER'S PREFERENCE

Note: In order for your firm to be considered for the local vendor preference, you must complete and return the attached "Local Vendor Preference Questionnaire" with your quotation.

The Lee County Local Bidder's Preference Ordinance No. 00-10 is being included as part of the award process for this project. As such, Lee County at its sole discretion, may choose to award a preference to any qualified "Local Contractor/Vendor" in an amount not to exceed 3 % of the total amount quoted by that firm.

"Local Contractor / Vendor" shall mean: a) any person, ~~firm~~partnership, company or corporation whose principal place of business in the sole opinion of the County, is located within the boundaries of Lee County, Florida; or b) any person, ~~firm~~partnership, company or corporation that has provided goods or services to Lee County on a regular basis for the preceding consecutive five (5) years, and that has the personnel, equipment and materials located within the boundaries of Lee County sufficient to constitute a present ability to perform the service or provide the goods.

The County reserves the exclusive right to compare, contrast and otherwise evaluate the qualifications, character, responsibility and fitness of all persons, firms, partnerships, companies or corporations submitting formal bids or formal quotes in any procurement for goods or services when making ~~an~~ award in the best interests of the County.

FORMAL QUOTATION NO.: Q-040296
TECHNICAL SPECIFICATIONS

SECTION 1, ALUMINUM SULFATE

A. Description

Liquid Aluminum Sulfate (Alum) shall meet ANSI/NSF standard 60. Price per dry ton Basis 17% Alum F.O.B. delivered to any Lee County Utilities Facility.

B. Physical properties

1. Appearance – Clear, light green or amber liquid
2. Physical State – Liquid
3. Molecular Weight - –594 for $Al_2(SO_4)_3 \cdot 14H_2O$
4. Chemical Formula – 48.5% $Al_2(SO_4)_3 \cdot 14H_2O$ in water
5. Odor -Odorless
6. Specific Gravity (water = 1.0) – 1.335
7. Solubility in water (weight %) - 100
8. pH - –3.5 (% solution)
9. Boilingpoint - 101" C
10. Melting point - -16" C
11. Vapor pressure – not applicable
12. Vapor density (air = 1.0)– not applicable
13. Evaporation Rate – not determined **compared to** - not applicable
14. % Volatiles - –50
15. Flash point – not flammable

C. Packaging – Bulk liquid

D. Delivery Location

Green Meadows WTP
13001 Alico Road
Fort Myers, FL 33913

College Parkway WTP
7401 College Parkway
Fort Myers, FL 33907

Olga WTP
1450 Werner Drive
Alva, FL 33920

Fiesta Village WWTP
1366 San Souci Drive
Fort Myers, FL 33919

Waterway Estates WWTP
1667 Inlet Drive
N. Fort Myers, FL 33903

E. Amount

Annual Estimated Usage: 2,228 dry tons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00am and 4:00pm, Monday through Friday**, within three (3) working days after verbal receipt of the order from Lee County Utilities

G. Delivery Amounts/Requirements

Green Meadows WTP;

Midmax 5,000 gallons per delivery, 20' 2 inch hose is required

College Parkway WTP;

Minimax 500-1000 gallons per delivery, 40' 2 inch hose is required

Olga WTP; 20 feet of 2 inch hose

Minimax 5,000 gallons per delivery. 20' 2 inch hose is required

Fiesta Village WWTP;

Min/max 5,000 gallons per delivery, 30' 3 inch hose is required

Waterway Estates WWTP;

Min/max 5,000 gallons per delivery, 30' 2 inch hose is required

SECTION 2, ANHYDROUS AMMONIA

A. Description - No AWWA Standard.

Ammonia is the compound formed by the chemical combination of the two gaseous elements, nitrogen and hydrogen, in the molar proportion of one **part** nitrogen to three parts hydrogen, This relationship is shown in the chemical symbol for ammonia, NH₃. On a weight basis, the ratio is fourteen parts nitrogen to three parts hydrogen or approximately 82% nitrogen to 28% hydrogen.

B. Physical properties

1. Molecular symbol - NH₃
2. Molecular weight - 17.031
3. Boiling point at one atmosphere - 28F (33.3C)
4. Freezing point at one atmosphere - 107.9F (-77.7C)
5. Critical temperature - 271.4F (133.0C)
6. Critical pressure - 1657 psi (114.2)
7. Odor - pungent

C. Packaging

Since the transportation of ammonia as a vapor is not commercially economical, it is shipped and stored as a liquefied compressed gas. When filling the customers un-insulated tank, by volume, DOT regulations permit a maximum of 87.5%, if the temperature of the ammonia being loaded is not lower than 30F (-1.1C) and if the filling is stopped at the first sign of ice forming on the outside of the tank.

D. Delivery Location

| | |
|--|---|
| Green Meadows WTP 13001 Alico Road Fort Myers, FL 33913 | Corkscrew WTP 16101 Alico Road Fort Myers, FL 33913 |
| Waterway Estates WTP 4271 St. Clair Ave. W. North Fort Myers, FL 33903 | Olga WTP 1450 Werner Drive Alva, FL 33920 |
| Bartow WTP 18513 Bartow Blvd. Fort Myers, FL 33912 | Pinewoods WTP 11950 Corkscrew Road Estero, FL 33928 |

E. Amount

Estimated Annual Usage: 70 tons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within two (2) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Green Meadows WTP;

Minimax 500-2,500 lbs per delivery, 30' hose is required

Olga WTP;

Minimax 500-2,500 lbs per delivery, 50' hose is required

Corkscrew WTP;

Minimax 500-2500 lbs per delivery, 30' hose is required

Waterway Estates WTP;

Min/max 500-750 lbs per delivery, 40' hose is required

Pinewoods WTP;

Minimax 500-2,500 lbs per delivery, 30' hose is required

Bartow WTP;

Min/max 500-750 lbs per delivery, 30' hose is required

H. Successful Bidders

Vendor shall have a qualified representative who shall be available 24 hours a day, 7 days a week, in case of emergency.

Storage tanks will be provided by Lee County.

SECTION 3. CALCIUM HYPOCHLORITE

A. Description

A white powder with a chlorine odor

B. Physical properties

1. Available chlorine minimum 65%
2. Bulk density 65 - 67 lbs/cu ft.
3. Solubility (weight % in water): 217 G/L at 27^c
4. Boiling point @ 760 MM HG: decomposes at 180^c
5. Heat of solution: slight exothermic

C. Packaging

Packaging and shipping must conform to current regulations. Containers are to be of a disposable nature and packaged per 100 lbs.

D. Delivery Location

College Parkway WTP
7401 College Parkway
Fort Myers, FL 33907

Corkscrew W TP
16101 Alico Road
Fort Myers, FL 33913

Green Meadows WTP
13001 Alico Road
Fort Myers, FL 33913

Olga WTP
1450 Werner Drive
Alva, FL 33920

Waterway Estates WTP
4271 St. Clair Ave., W.
North Fort Myers, FL 33903

Gateway Services WWTP
13240 Commerce Lakes Dr.
Ft. Myers, FL 33913

Fiesta Village WWTP
1366 San Souci Dr.
Fort Myers, FL 33919

Ft. Myers Beach, WWTP
17155 Pine Ridge Road
Fort Myers Beach, FL 33908

Waterway Estates WWTP
1667 Inlet Drive
N. Fort Myers, FL 33903

Highpoint WWTP
9001 Sedgfield Rd.
North Ft. Myers, FL 33917

Bartow WTP
18513 Bartow Blvd.
Fort Myers, FL 33912

Pinewoods WTP
11950 Corkscrew Road
Estero, FL 33928

Detar Warehouse
5180 Tice Street
Fort Myers, FL 33905

E. Amount

Annual Estimated Usage: 8,650 lbs

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within eight (8) working days after verbal receipt of the order from Lee County

G. Delivery Amounts/Requirements

College Parkway WTP;

Midmax 1-5 pails per delivery, liftgate truck is required

Greenmeadows WTP;

Min/max 1-5 pails per delivery, liftgate truck is required

Waterway WTP;

Min/max 1-5 pails per delivery, liftgate truck is required

Fiesta Village WWTP;

Midmax 1-5 pails per delivery, liftgate truck is required

Waterway WWTP;

Min/max 1-5 pails per delivery, liftgate truck is required

Corkscrew WTP;

Minimax 1-5 pails per delivery, liftgate truck is required

Olga WTP;

Midmax 1-5 pails per delivery, liftgate truck is required

Ft. Myers Beach WWTP;

Midmax 1-5 pails per delivery, liftgate truck is required

Highpoint WWTP;

Min/max 1-5 pails per delivery, liftgate truck is required

Pinewoods WTP;

Midmax 2-4 pails per delivery, liftgate truck is required

Bartow WTP;

Midmax 1-2 pails per delivery, liftgate truck is required

Detar Warehouse;

Midmax 10-20 pails per delivery, liftgate truck is required

Gateway WWTP;

Midmax 10-20 pails per delivery, liftgate truck is required

H. Prospective Bidders

Prospective bidders shall supply a complete analysis and a representative sample of their product for independent verification to the County, prior to the award of the contract. **All** analysis shall be in accordance with AWWA B300-80.

SECTION 4, HYDRATED LIME

A. Description - AWWA B202-88

A very finely divided powder resulting from the hydration of quicklime with enough water to satisfy its chemical affinity. Consists of calcium hydroxide or a mixture of calcium hydroxide and magnesium hydroxide; 68% calcium oxide, not less than 62%.

B. Physical properties

Consists of calcium hydroxide or a mixture of calcium hydroxide and magnesium hydroxide; 68% calcium oxide, not less than 62%.

C. Packaging

The quicklime shall be delivered in bulk, by a hopper truck that can be unloaded pneumatically.

D. Delivery Location

College Pkwy WTP
7401 College Parkway
Fort Myers, FL 33907

E. Amount

Annual Estimated Usage: 40 tons

F. Delivery Time

Shipments will be FOB Destination, and **By appointment only**, within two (2) working days after verbal receipt of the order from Lee County Utilities

G. Delivery Amounts/Requirements

College Pkwy WTP;
Min/max 25 tons per delivery, 20' 4 inch hose is required

H. Prospective Bidders

Prospective bidders shall supply a complete analysis and a representative sample of their product for independent verification to the County, prior to the award of the contract. The analysis shall include a sieve analysis showing the percent captured on each size sieve, ranging from a 3/4" sieve to a #200 sieve. There will also be an analysis presented, showing the available calcium oxide content, slaking time, temperature rise, and insoluble matter content. All analyses shall be done in accordance with AWWA Spec B-202 (latest edition).

SECTIONS 5 AND 5A, POLYMER - No AWWA Standard

A. Description

Various polymers are required for Lee County Utilities. Water Treatment Plants require a polymer that performs and has the same chemical structure as Calciquest 2154G or equal and Calciquest 2244G or equal. Product is generally described as a mildly anionic, white, dry, free-flowing powder or liquid used for flocculation in water softening units, where an organic synthetic material is essential

B. Physical properties

1. Charge in solution - Anionic 11% to 29%
2. Relative molecular weight - 10,000,000
3. Bulk density - 47-lbs./cu. ft.
4. pH 0.5% solution - 7.5
5. Solution viscosity - tap water - .1%
6. Flash point - less than 230°C
7. Maximum stock solution - 1.0%
8. Must be effective at or below a dosage of 0.20 PPM.
9. Odor – slight ammonia odor
10. Moisture – 5 +1%
11. Viscosity of a 0.5% solution – equal to or greater than 5,000 CPS (25C)
12. Particle size – 99% through 16 mesh

C. Packaging

Supplied in poly-lined multi-walled paper bags, net weight 50 lbs., or less (25 bags to pallet).

D. Delivery Location

Olga WTP (2154G)
1450 Werner Drive
Alva, FL 33920

Waterway Estates WTP (22446)
4271 St. Clair Ave. W.
N. Fort Myers, FL 33903

Corkscrew WTP (2154G)
16101 Alico Road
Fort Myers, FL 33913

E. Amount

Estimated Annual Usage: 2154G – 16,400 lbs
2244G 600 lbs

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00AM and 4:00PM, Monday through Friday**, within eight (8) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Olga WTP;

Min/max 1,500-2,000lbs per delivery, pallet jack in truck is required

Corkscrew WTP;

Midmax 1,500-2,000lbs per delivery, pallet jack in truck is required

Waterway Estates WTP; (Delivered to Olga WTP)

Midmax 600lbs per delivery is required, pallet jack in truck is required

H. Successful Bidders

The vendor supplying the potable coagulant aid must be capable of offering regular technical service to Lee County Utilities. A service engineer shall be available upon 24 hours notice for extending technical service, as requested.

The low quoter meeting specifications shall be required to participate in the following testing procedures, prior to the final award of this quote being made. The vendor shall conduct an extensive series of jar tests at the Utility (with the lead operator observing) to determine the ability of the coagulant aid to properly coagulate and settle the suspended materials and chemical precipitates within the reactors of the Utility. The vendor will supply sufficient material at no charge to the Utility for a two-week evaluation of the coagulant aid and shall supervise **all** phases of this evaluation for a minimum of 2 weeks. During this time period, Lee

County will get a first hand look at how the polymer works under actual conditions such as, varied flow rates, mixer speed changes, temperature and solid content variations. If the tests are satisfactory, the award will then be made to that vendor.

I. Approvals

A letter from the Department of Health stating the product is approved for use in Lee County Water Plants must be submitted with the quote response, their address is as follows.

Environmental Engineering
DOH – Lee County Health Department
60 Danley Drive, Unit 1
Ft. Myers, FL 33907
(239) 939-4245

SECTION 5B. POLYMERS, CATIONIC POLYACRYLAMIDE EMULSION

NOTE: Polymer shall be approved for reuse water and land application as a residual in sludge.

A. Description – No AWWA Standard

A Cationic polyacrylamide in water-in oil emulsion, viscous, free-flowing liquid for a de-watering sludge from wastewater digestion units where an organic synthetic material is essential.

B. Physical properties

1. Relative molecular weight – 2,000,000
2. pH 0.5% solution - 7.5
3. Solution viscosity - tap water - 1.02
4. Solubility in water (% by weight): 5%
5. Must be effective at or below a dosage of 0.5%
6. Colorless to white

C. Packaging

55 gallon drums

D. Delivery Location

Fort Myers Beach WWTP
17155 Pine Ridge Road
Fort Myers Beach, FL 33931

Fiesta Village WWTP
1366 San Souci Drive
Fort Myers, FL 33919

E. Amount

Estimated Annual Usage: 50,000 lbs

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00AM and 4:00PM, Monday through Friday**, within eight (8) working days after verbal receipt of the order from Lee County Utilities.

C. Delivery Amounts/Requirements

Fort Myers Beach WWTP;
Minimax - four (4) 55 gal. drums per delivery, liftgate truck is required

Fiesta Village WWTP;
Min/max – four (4) 55 gal. drums per delivery, liftgate truck is required

H. Successful Bidders

The vendor supplying the potable coagulant aid must be capable of offering regular technical service to Lee County Utilities. A service engineer shall be available upon 24 hours notice for extending technical service, as requested.

The low quoter meeting specifications shall be required to participate in the following testing procedures, prior to the final award of this quote being made. The vendor shall conduct an extensive series of jar tests at the Utility (with the lead operator observing) to determine the ability of the coagulant aid to properly coagulate and settle the suspended materials.

SECTION 6, POLYPHOSPHATE

A. Description

Powder Form - B502-83 AWWA

A white, dry, free-flowing powder blend of Polyphosphate specifically selected to optimize the best property of each phosphate species, for controlling corrosion and scale in municipal water systems.

B. Physical properties (or equivalent)

1. Powder Form:
 - a. pH (1% solution) - 10.6
 - b. Bulk density - 64 pounds/cu.ft
 - c. P04 content - 63%

C. Packaging

Powder Form--Polyphosphate must be shipped in multi-walled paper bags whose contents shall not exceed 50 pounds.

Freight classification: Sodium Phosphate No. 1.

D. Delivery Location

Olga WTP
1450 Werner Drive
Alva, FL 33920

Corkscrew WTP
16101 Alico Road
Fort Myers, FL 33913

E. Amount

Annual Estimated Usage: 70,000 lbs

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within eight (8) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Olga WTP;

Midmax 2,000-4,000 lbs per delivery, pallet jack in truck is required.

Corkscrew WTP;

Min/max 2,000-4,000 lbs per delivery, pallet jack in truck is required.

H. Successful Bidders

The successful bidder shall have a qualified representative visit the plant and help establish the effectiveness of the product, by the water insertion process or by other required testing to determine the scaling or corrosion control in the water mains and in filter core samples. This bid shall be awarded to one bidder. That bidder shall be capable of supplying a dry phosphate.

SECTION 7. POWDERED ACTIVATED CARBON

A. Description AWWA B600-78 or latest revision

This product is used for removal of tastes, odors and other organics from potable water supplies. This product is delivered as a powdered form in bags.

B. Physical properties

Apparent density shall not be less than 0.2 g/ml nor greater than 0.75 g/ml

Not less than 99% shall pass a #100 sieve.

Not less than 95% shall pass a #200 sieve.

Not less than 90% shall pass a #325 sieve.

Iodine number not less than 500

Phenol value not greater than 3.5

An analysis shall be supplied with the bid package documenting the above properties.

C. Packaging

40 or 50 pound bags. Each pallet shall be shrink-wrapped to keep out rain. Pallets shall not weigh more than 2,000 pounds each.

D. Delivery Location

Olga WTP

1450 Werner Drive

Alva, FL 33920

E. Amount

Annual Estimated Usage: 40,000 lbs

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within five (5) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Olga WTP;

Min/max 20,000 lbs per delivery, delivered in an enclosed trailer; pallet jack in truck required

SECTIONS 8 AND 8A, QUICKLIME, BULK (POWDER TO 3/8")

(FOUNDRY i -3/8 x 1/16)

A. Description - AWWA B202-83

A white, dry, free-flowing material, ranging in size from granular to pebble, along with various smaller size fines of calcium oxide, in a homogeneous mixture.

B. Physical Properties

1. Appearance - white, free flowing powder/pebble mix
2. Bulk density - 65-lb./cu ft.
3. CaO Content - at least 90%.
4. Size - pebble material according to AWWA standard B-202, Section 2.2.1.1 ranging in size from powder to 3/8".
5. Insoluble matter - not to exceed 5%.
6. Not more than 5% of the fines shall pass a No. 100 U. S. Standard sieve and none will be retained on a 3/4" sieve.
7. The material will have sufficient free flowing characteristics to prevent bridging in the storage silo at the water plant. If the material is found to bridge excessively in storage, this will be sufficient cause to cancel the contract and award the contract to the next lowest vendor.
8. The vendor will adjust pricing or issue credits or refunds if it is discovered that an unusual amount of foreign material is produced by the normal use of this material. The vendor will also be responsible for any equipment damage (including parts and labor) resulting from foreign materials introduced to the lime feed system with the quicklime.
9. Foundry Lime size will be -3/8 x 1/16

C. Packaging

The quicklime shall be delivered in bulk, by a hopper truck that can be unloaded pneumatically.

D. Delivery Locations

Olga WTP
1450 Werner Drive
Alva, FL 33920

Corkscrew WTP
16101 Alico Road
Fort Myers, FL 33913

Waterway Estates WTP
4271 St. Clair Ave. W.
N. Fort Myers, FL 33903

Green Meadows WTP
13001 Alico Road
Fort Myers Beach, FL 33931

Waterway Estates WWP
16671 Inlet Drive
N. Ft. Myers, FL 33903

E. Amount

Estimated usage annually – 5,491 tons

Bulk Powder Foundry – 30 tons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00AM and 4:00PM, Monday through Friday**, within two (2) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Green Meadows WTP;

minimax 25 tons per delivery, 20' 4 inch hose is required

Corkscrew WTP;

min/max 25 tons per delivery, 10' 4 inch hose is required

Waterway Estates WTP;

minimax 25 tons per delivery, 10' 4 inch hose required

Olga WTP;

min/max 25 tons per delivery, 30' 4 inch hose is required

Waterway Estates WWTP; foundry lime

min/max 25 tons per delivery, 30' 4 inch hose is required

H. Prospective Bidder

Prospective bidders shall supply a complete analysis and a representative sample of their product for independent verification to the County, prior to the award of the contract. The analysis shall include a sieve analysis showing the percent captured on each size sieve, ranging from a 3/4" sieve to a #200 sieve. There will also be an analysis presented, showing the available calcium oxide content, slaking time, temperature rise, and insoluble matter content. All analyses shall be done in accordance with AWWA Spec B-202 (latest edition).

SECTION 9, SODIUM CHLORITE

A. Description – AWWA Standard B-303-88 (or latest edition)

Clear, slightly yellow, no visible turbidity and no appreciable sediment upon standing for 24 hours at ambient temperatures.

B. Physical properties

1. By weight as active chlorite – approx. 25%
2. Density – approximately 10.35 lbs. per gallon at 68 degrees F
3. pH – strongly alkaline
4. Stability – Alkaline stock solutions are stable indefinitely

C. Packaging

The product shall be delivered in bulk, with suitable equipment for unloading the cargo into a liquid sodium chlorite storage tank

D. Delivery Location

Olga WTP
1450 Werner Drive
Fort Myers, FL 33905

E. Amount

Annual Estimated Usage: 3,000 gallons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00AM and 4:00PM, Monday through Friday**, within two (2) working days after verbal receipt of the order from Lee County Utilities

G. Delivery Amounts/Requirements

Olga WTP;
Min/max 2,000-3,000 gallons per delivery, 20' hose is required

H. SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

A. Description

Commercial grade approved for use in potable water under rule 17-555.325 F.A.C. and certified as being in compliance with ANSI/AWWA standard B501-88.

B. Physical properties

Product shall be delivered as a 50% solution. Product shall meet or exceed all industry standards for quality control.

C. Packaging

Bulk; Packaging shall conform with all applicable federal and state standards. Unloading shall be through a 2" quick couple fitting on the tank. Hoses for delivering from the tanker to the holding tank shall be the responsibility of the awarded vendor.

D. Delivery Location

Waterway Estates WTP
4271 St. Clair Ave. W.
Ft. Myers, FL 33903

Olga WTP
1450 Werner Drive 33903
Alva, FL 33920

E. Amount

Annual Estimated Usage: 90 dry tons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within three (3) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Waterway Estates WTP;
Min/max 500-750 gallons per delivery, 60' 2 inch hose is required

Olga WTP;
Min/max 1,000-2,500 gallons per delivery, 80' 2 inch hose is required

H. Prospective Bidders

Prospective bidders shall supply a complete analysis and a representative sample of their product for independent verification to the County, prior to the award of the contract. All analysis shall be in accordance with AWWA and industry standards.

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

A. Description

Commercial grade approved for use in an odor control unit.

B. Physical properties

Product shall be delivered as a 25% solution. Product shall meet or exceed all industry standards for quality control.

C. Packaging

Unloading shall be through a 2" quick couple fitting on the tank. Hoses for delivering from the tanker to the holding tank shall be the responsibility of the awarded vendor.

D. Delivery Location

Fiesta Village WWTP
1366 San Souci Dr.
Fort Myers, FL 33919

Ft. Myers Beach, WWTP
17155 Pine Ridge Road
Fort Myers Beach, FL 33931

E. Amount

Annual Estimated Usage: 16,300 gallons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00 AM and 4:00 PM, Monday through Friday**, within three (3) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Fiesta Village WWTP;
Min/max 250-300 gallons per delivery, 35' 2 inch hose is required

Ft. Myers Beach WWTP;
Min/max 1,000-1,500 gallons per delivery, 35' 2 inch hose is required

SECTION 12, SULFUR DIOXIDE

A. Description

Sulfur Dioxide (SO₂)

B. Physical properties

The Sulfur Dioxide gas shall have a minimum assay of 99.98% and a moisture content of not more than 100PPM.

C. Packaging

1 ton cylinders

D. Delivery Location

Fiesta Village WWTP
1366 San Souci Drive
Fort Myers, FL 33919

E. Amount

Annual Estimated Usage: 34 tons

F. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00am and 4:00pm, Monday thru Friday**, within three (3) working days after verbal receipt of the order from Lee County Utilities.

G. Delivery Amounts/Requirements

Fiesta Village WWTP;
Min/max 2 – 4 tons per delivery, cherry picker truck is required

SECTION 13, SULFURIC ACID (BULK)

H. Description

Sulfuric Acid

I. Physical properties

Sulfuric acid technical grade, 93.19% minimum, 95% maximum, 66 degree baume.

J. Packaging

Bulk; Packaging shall conform with all applicable federal and state standards

K. Delivery Location

| | |
|-------------------|-----------------------|
| Olga WTP | Waterway Estates WTP |
| 1450 Werner Drive | 4271 Saint Claire Ave |
| Alva, FL 33920 | Fort Myers, FL 33903 |

L. Amount

Annual Estimated Usage: 120 tons

M. Delivery Time

Shipments will be FOB Destination, and received between the hours of **8:00am and 4:00pm, Monday thru Friday**, within three (3) working days after verbal receipt of the order from Lee County Utilities.

N. Delivery Amounts/Requirements

Olga WTP;
Min/max 1,000-3,000 gallons per delivery, 30' 2 inch hose is required

Waterway Estates WTP;
Min/max 500-750 gallons per delivery, 30' 2 inch hose is required

O. Prospective Bidders

Prospective bidders shall supply a complete analysis and a representative sample of their product for independent verification to the County prior to the award of the contract. All analysis shall be in accordance with accepted industry standards.

STANDARD CONTRACT - Contracts that will not exceed three hundred and sixty five (365) calendar days; or where costs will not exceed \$500,000; and/or there are no unusual hazards present.

1. **Insurance Requirements:** *These are minimum requirements, which are subject to modification in response to operations involving a higher level of loss exposure.*

a. **Workers' Compensation** - Statutory benefits as defined by FS 440 encompassing all operations contemplated by this contract or agreement to apply to all owners, officers, and employees regardless of the number of employees. Individual employees may be exempted per State Law. Employers' liability will have minimum limits of:

\$500,000 per accident
\$500,000 disease limit
\$500,000 disease limit per employee

b. **Commercial General Liability** - Coverage shall apply to premises and/or operations, products and/or completed operations, independent contractors, contractual liability, and broad form property damage exposures with minimum limits of:

\$500,000 bodily injury per person (BI)
\$1,000,000 bodily injury per occurrence (BI)
\$500,000 property damage (PD) or
\$1,000,000 combined single limit (CSL) of BI and PD

c. **Business Auto Liability** - The following Automobile Liability will be required and coverage shall apply to all owned, hired and non-owned vehicles use with minimum limits of:

\$500,000 bodily injury per person (BI)
\$1,000,000 bodily injury per occurrence (BI)
\$100,000 property damage (PD) or
\$1,000,000 combined single limit (CSL) of BI and PD

“The required limit of liability shown in Standard Contract: 1.a; 1.b; 1.c; may be provided in the form of “Excess Insurance” or “Commercial Umbrella Policies.” In which case, a “Following Form Endorsement” will be required on the “Excess Insurance Policy” or “Commercial Umbrella Policy.”

2. Verification of Coverage:

a. Ten (10) days prior to the commencement of any work under this contract a certificate of insurance will be provided to the Risk Manager for review and approval. The certificate shall provide for the following:

1. ***"Lee County, a political subdivision and Charter County of the State of Florida, its agents, employees, and public officials@ will be named as an "Additional Insured" on the General Liability policy.***

2. Lee County will be given thirty (30) days notice prior to cancellation or modification of any stipulated insurance. Such notification will be in writing by registered mail, return receipt requested and addressed to the Risk Manager (P.O. BOX 398 Ft. Myers, FL 33902).

3. Special Requirements:

a. An appropriate "Indemnification" clause shall be made a provision of the contract.

b. It is the responsibility of the general contractor to insure that all subcontractors comply with all insurance requirements.

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? _____
2. Describe the types and amount of equipment you have available to service this contract.

3. Describe the types and amount of material stock that you have available to service this contract.

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes _____ No _____

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.
Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided.
- 7. All addendums issued, if any, have been acknowledged in the space provided.
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. Any Delivery information required is included

11. The mailing envelope has been addressed to:

MAILING ADDRESS

Lee County Purchasing
P.O. Box 398 or
Ft. Myers, FL 33902-0398

PHYSICAL ADDRESS

Lee County Purchasing
1825 HENDRY STREET, 3RD FLOOR
Ft. Myers, FL 33901

12. The mailing envelope **MUST** be sealed and marked with:

Quote Number
Opening Date and/or Receiving Date

13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)

14. If submitting a "NO BID" please write quote number here _____

and check one of the following:

Do not offer this product Insufficient time to respond.

Unable to meet specifications (why)

Unable to meet bond or insurance requirement.

Other: _____

Company Name and Address:

ATTACHMENT

| FORMAL QUOTATION #Q-040296 | LEE COUNTY, FLORIDA TABULATION SHEET | | | | | | |
|--------------------------------------|--------------------------------------|---------------|--------------------|--------|----------------|-------------|-------------|
| OPENING DATE: May 18, 2004 | FOR | | | | | | |
| BUYER: Chevone Peterson | ADDITIONAL CHEMICALS FOR UTILITIES | | | | | | |
| VENDORS | ALTVIA | NALCO COMPANY | BRENNTAG MID SOUTH | SATCO | DUMONT COMPANY | KEMIRON | UNIVAR USA |
| ACKNOWLEDGE ADDENDUM (S) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| SECTION 1, ALUMINUM SULFATE (LIQUID) | | | | | | | |
| TOTAL COST X 2,228 DRY TONS | | | | | | 572,596.00 | |
| SECTION 2, ANHYDROUS AMMONIA - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 70 TONS | | | | | | | |
| SECTION 3, CALCIUM HYPOCHLORITE - | | | * | | | | **** |
| TOTAL COST PER (100#) PAIL | NO BID | NO BID | \$98.00 | NO BID | \$0.92 | NO BID | \$100.00 |
| TOTAL COST X 8,650 (100#) PAILS | | | \$8,700.00 | | \$7,958.00 | | \$8,650.00 |
| SECTION 4, HYDRATED LIME - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | \$300.00 | NO BID | NO BID | NO BID | \$220.00 |
| TOTAL COST X 40 TONS | | | \$12,000.00 | | | | \$8,800.00 |
| SECTION 5, POLYMER - | | | | | | | |
| TOTAL COST PER LB | NO BID | \$1.27 | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 16,400 LBS. | | \$20,828.00 | | | | | |
| SECTION 5A, POLYMER - | | | | | | | |
| TOTAL COST PER LB | NO BID | \$1.27 | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 600 LBS | | \$762.00 | | | | | |
| SECTION 5B, POLYMER, CATIONIC | | | | | | | |
| POLYACRYLAMIDE EMULSION - | | | | | | | |
| TOTAL COST PER LB (55 GALLON DRUM) | NO BID | 0.6990 | NO BID | NO BID | NO BID | 1.035 | \$1.75 |
| TOTAL COST X 50,000 LBS | | \$34,950.00 | | | | \$51,750.00 | \$87,500.00 |

| VENDORS | ALTVIA | NALCO COMPANY | BRENNTAG MID SOUTH | SATCO | DUMONT COMPANY | KEMIRON | UNIVAR USA |
|---|-------------|---------------|--------------------|--------|----------------|---------|------------------------------|
| SECTION 6, POLYPHOSPHATE - TOTAL COST PER LB | NO BID | 0.06649 | NO BID | NO BID | \$0.79 | NO BID | ***** ** *** * ** ** * |
| TOTAL COST X 70,000 LBS | | \$46,543.00 | | | \$55,300.00 | | \$36,400.00 |
| SECTION 7, POWDERED ACTIVATED CARBON - TOTAL COST PER LB. | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 40,000 LBS | | | | | | | |
| SECTION 8, QUICKLIME, BULK (POWDER TO 3/8") TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 5,491 TONS | | | | | | | |
| SECTION 8A, QUICKLIME, (FOUNDRY SIZE -3/8 X 1/16)-TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 30 TONS | | | | | | | |
| SECTION 9, SODIUM CHLORITE - TOTAL COST PER GALLON | \$6.04 | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 3,000 GALLONS | \$18,120.00 | | | | | | |
| SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA) TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | \$410.00 |
| TOTAL COST X 90 TONS | | | | | | | \$36,900.00 |
| SECTION 11, SODIUM HYDROXIDE 25% TOTAL COST PER GALLON | NO BID | NO BID | NO BID | NO BID | \$2.98 | NO BID | \$1.17 |
| TOTAL COST X 16,300 GALLONS | | | | | \$48,574.00 | | \$19,071.00 |

| VENDORS | ALTIVIA | NALCO COMPANY | BRENNTAG MID SOUTH | SATCO | DUMONT COMPANY | KEMIRON | UNIVAR USA |
|------------------------------------|---------|---------------|--------------------|------------|----------------|--------------|--------------|
| SECTION 12, SULFUR DIOXIDE - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | \$400.00 | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 34 TONS | | | \$13,600.00 | | | | |
| SECTION 13, SULFURIC ACID (BULK) - | | | | ** | | | |
| TOTAL COST PER TON | NO BID | NO BID | NO BID | \$56.86 | NO BID | NO BID | NO BID |
| TOTAL COST X 120 TONS | | | | \$6,823.20 | | | |
| | | | | \$6,823.20 | \$111,832.00 | \$624,346.00 | \$197,321.00 |
| | | | | | | BLANK | 10 |
| | | | | | | | YES |
| LOCAL VENDOR PREFERENCE | NO | NO | NO | NO | YES | NO | NO |
| MODIFICATIONS | NO | NO | YES | YES | NO | YES | YES |
| SUBMITTALS | YES | YES | YES | YES | YES | YES | YES |
| QUOTE SIGNED | YES | YES | YES | YES | YES | YES | YES |
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| FORMAL QUOTATION #Q-040296 | LEE COUNTY, FLORIDA TABULATION SHEET | | | | | | |
|---|--------------------------------------|-------------------|-----------------------|-----------------|---------------|------------------|-------------|
| OPENING DATE: May 18, 2004 | FOR | | | | | | |
| BUYER: Chevone Peterson | ADDITIONAL CHEMICALS FOR UTILITIES | | | | | | |
| VENDORS | FORT BEND SERVICES | TANNER INDUSTRIES | CARMEUSE LIME & STONE | CALCIQUEST INC. | CHEMICAL LIME | ALLIED UNIVERSAL | POLYDYNE |
| ACKNOWLEDGE ADDENDUM (S) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| SECTION 1, ALUMNUM SULFATE (LIQUID) | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 2,228 DRY TONS | | | | | | | |
| SECTION 2, ANHYDROUS AMMONIA - | | ***** | | | | | |
| TOTAL COST PER TON | NO BID | .2750 | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 70 TONS | | \$38,500.00 | | | | | |
| SECTION 3, CALCIUM HYPOCHLORITE - | | | | | | ***** | |
| TOTAL COST PER (100#) PAIL | NO BID | NO BID | NO BID | NO BID | NO BID | 0.938 | NO BID |
| TOTAL COST X 8,650 (100#) PAILS | | | | | | \$8,113.70 | |
| SECTION 4, HYDRATED LIME - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | \$160.53 | NO BID | \$143.00 | NO BID | NO BID |
| TOTAL COST X 40 TONS | | | \$6,421.20 | | \$5,720.00 | | |
| SECTION 5, POLYMER - | | | | | | | |
| TOTAL COST PER LB. | \$1.04 | NO BID | NO BID | \$1.14 | NO BID | NO BID | \$1.03 |
| TOTAL COST X 16,400 LBS. | \$17,056.00 | | | \$18,696.00 | | | \$16,892.00 |
| SECTION 5A, POLYMER - | | | | | | | |
| TOTAL COST PER LB. | \$1.04 | NO BID | NO BID | \$1.14 | NO BID | NO BID | \$1.18 |
| TOTAL COST X 600 LBS. | \$624.00 | | | \$684.00 | | | \$708.00 |
| SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION - | | | | | | | |
| TOTAL COST PER LB (55 GALLON DRUM) | \$0.90 | NO BID | NO BID | \$1.28 | NO BID | NO BID | \$0.89 |
| TOTAL COST X 50,000 LBS | \$45,000.00 | | | \$64,000.00 | | | \$44,500.00 |

| VENDORS | FORT BEND SERVICES | TANNER INDUSTRIES | CARMEUSE LIME & STONE | CALCIQUEST INC. | CHEMICAL LIME | ALLIED UNIVERSAL | POLYDYNE |
|---|--------------------|-------------------|-----------------------|-----------------|---------------|------------------|-------------|
| SECTION 6, POLYPHOSPHATE - TOTAL COST PER LB. | NO BID | NO BID | NO BID | \$0.54 | NO BID | NO BID | NO BID |
| TOTAL COST X 70,000LBS. | | | | \$37,800.00 | | | |
| SECTION 7, POWDERED ACTIVATED CARBON - TOTAL COST PER LB. | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | \$0.36 |
| TOTAL COST X 40,000 LBS | | | | | | | \$14,400.00 |
| SECTION 8, QUICKLIME, BULK (POWDER TO 3/8") TOTAL COST PER TON | NO BID | NO BID | \$136.25 | NO BID | \$125.16 | NO BID | NO BID |
| TOTAL COST X 5,491 TONS | | | \$748,148.75 | | \$687,253.56 | | |
| SECTION 8A, QUICKLIME, (FOUNDRY SIZE: -3/8 X 1/16) - TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | \$139.00 | NO BID | NO BID |
| TOTAL COST X 30 TONS | | | | | \$4,170.00 | | |
| SECTION 9, SODIUM CHLORITE - TOTAL COST PER GALLON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 3,000 GALLONS | | | | | | | |
| SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA) TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | \$376.00 | NO BID |
| TOTAL COST X 90 TONS | | | | | | \$33,840.00 | |
| SECTION 11, SODIUM HYDROXIDE 25% TOTAL COST PER GALLON | NO BID | NO BID | NO BID | NO BID | NO BID | \$0.89 | NO BID |
| TOTAL COST X 16,300 GALLONS | | | | | | \$14,507.00 | |

| VENDORS | FORT BEND SERVICES | TANNER INDUSTRIES | CARMEUSE LIME & STONE | CALCIQUEST INC. | CHEMICAL LIME | ALLIED UNIVERSAL | POLYDYNE |
|------------------------------------|--------------------|-------------------|-----------------------|-----------------|---------------|------------------|-------------|
| SECTION 12, SULFUR DIOXIDE - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | \$369.80 | NO BID |
| TOTAL COST X 34 TONS | | | | | | \$12,573.20 | |
| SECTION 13, SULFURIC ACID (BULK) - | | | | | | | |
| TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | \$119.00 | NO BID |
| TOTAL COST X 120 TONS | | | | | | \$14,280.00 | |
| GRAND TOTAL ALL SECTIONS | \$62,680.00 | \$38,500.00 | \$754,569.95 | \$121,180.00 | \$697,143.56 | \$83,313.90 | \$76,500.00 |
| DELIVERY WITHIN CALENDAR DAYS | 45 | 2 | BLANK | 8 | 2 | 3 | 3 - 5 |
| DELIVERY WITH OWN VEHICLE | NO | YES | NO | NO | NO | YES | NO |
| LOCAL VENDOR PREFERENCE | NO | NO | KO | NO | NO | NO | NO |
| MODIFICATIONS | NO | YES | YES | NO | NO | YES | KO |
| SUBMITTALS | YES | YES | YES | YES | YES | YES | YES |
| QUOTE SIGNED | YES | YES | YES | YES | YES | YES | YES |
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| FORMAL QUOTATION #Q-040296 | LEE COUNTY, FLORIDA TABULATION SHEET | | | | | | |
|--|--------------------------------------|----------------|------------------|--------------------|----------------|--------------------|-------------------|
| OPENING DATE: May 18, 2004 | FOR | | | | | | |
| BUYER: Chevone Peterson | ADDITIONAL CHEMICALS FOR UTILITIES | | | | | | |
| VENDORS | CARUS CHEMICAL | CIBA SPECIALTY | SHANNON CHEMICAL | LEACHEM INDUSTRIES | NORIT AMERICAS | LAROCHE INDUSTRIES | GENERAL CHEMICAL |
| ACKNOWLEDGE ADDENDUM (S) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| SECTION 1, ALUMINUM SULFATE (LIQUID) TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | ***** \$160.00 |
| TOTAL COST X 2,228 DRY TONS | | | | | | | \$356,480.00 |
| SECTION 2, ANHYDROUS AMMONIA - TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | \$530.00 | NO BID |
| TOTAL COST X 70 TONS | | | | | | \$37,100.00 | |
| SECTION 3, CALCIUM HYPOCHLORITE - TOTAL COST PER (100#) PAIL | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 8,650 (100#) PAILS | | | | | | | |
| SECTION 4, HYDRATED LIME - TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 40 TONS | | | | | | | |
| SECTION 5, POLYMER - TOTAL COST PER LB. | NO BID | NO BID | NO BID | \$1.19 | NO BID | NO BID | NO BID |
| TOTAL COST X 16,400 LBS. | | | | \$19,516.00 | | | |
| SECTION 5A, POLYMER - TOTAL COST PER LB | NO BID | NO BID | NO BID | \$1.43 | NO BID | NO BID | NO BID |
| TOTAL COST X 600 LBS. | | | | \$858.00 | | | |
| SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION - TOTAL COST PER LB (55 GALLON DRUM) | NO BID | \$0.67 | NO BID | \$0.96 | NO BID | NO BID | NO BID |
| TOTAL COST X 50,000 LBS | | \$33,500.00 | | \$48,000.00 | | | |

| VENDORS | CARUS CHEMICAL | CIBA SPECIALTY | SHANNON CHEMICAL | LEACHEM INDUSTRIES | NORIT AMERICAS | LAROCHE INDUSTRIES | GENERAL CHEMICAL |
|---|----------------|----------------|------------------|--------------------|----------------|--------------------|------------------|
| SECTION 6, POLYPHOSPHATE - TOTAL COST PER LB. | 0.6519 | NO BID | 0.644 | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 70,000 LBS. | \$45,633.00 | | \$45,080.00 | | | | |
| SECTION 7, POWDERED ACTIVATED CARBON - TOTAL COST PER LB. | NO BID | NO BID | NO BID | NO BID | \$0.29 | NO BID | NO BID |
| TOTAL COST X 40,000 LBS | | | | | \$11,600.00 | | |
| SECTION 8, QUICKLIME, BULK (POWDER TO 3/8") TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 5,491 TONS | | | | | | | |
| SECTION 8A, QUICKLIME, (FOUNDRY SIZE: -3/8 X 1/16) - TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 30 TONS | | | | | | | |
| SECTION 9, SODIUM CHLORITE - TOTAL COST PER GALLON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA) TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 90 TONS | | | | | | | |
| SECTION 11, SODIUM HYDROXIDE 25% TOTAL COST PER GALLON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 16,300 GALLONS | | | | | | | |

| VENDORS | CARUS CHEMICAL | CIBA SPECIALTY | SHANNON CHEMICAL | LEACHEM INDUSTRIES | NORIT AMERICAS | LAROCHE INDUSTRIES | GENERAL CHEMICAL |
|--|-------------------|---|---------------------|-----------------------|-------------------|-----------------------|---------------------|
| SECTION 12, SULFUR DIOXIDE - TOTAL COST PER TON | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID | NO BID |
| TOTAL COST X 34 TONS | | | | | | | |
| SECTION 13, SULFURIC ACID (BULK) - TOTAL COST PER TON | NO BID | NO BID | NO BID | | NO BID | | |
| TOTAL COST X 120 TONS | | | | | | | |
| GRAND TOTAL ALL SECTIONS | \$45,633.00 | \$33,500.00 | \$45,080.00 | \$68,374.00 | \$11,600.00 | \$37,100.00 | \$356,480.00 |
| DELIVERY WITHIN CALENDAR DAYS | 3 - 5 | 3 - 5 | BLANK | 10 | 5 - 10 | 3 | 1 - 2 |
| DELIVERY WITH OWN VEHICLE | NO | NO | NO | NO | NO | YES | NO |
| LOCAL VENDOR PREFERENCE | NO | NO | NO | NO | NO | NO | NO |
| MODIFICATIONS | NO | NO | NO | NO | NO | NO | YES |
| SUBMITTALS | YES | YES | YES | YES | YES | YES | YES |
| QUOTE SIGNED | YES | YES | YES | YES | YES | YES | YES |
| NO BIDS | | | | | | | |
| HARCROS CHEMICALS, INC. | | | | | | | |
| AIRGAS CARBONIC | | | * 98.00 X 8,700 | | | | |
| | | ** minimum truckload 24 ton; one hour free unloading time; detention of \$55.00 per hr.; tractor air an additional \$25.00 per load; price only applicable to Alva & Ft. Myers locations; other locations/government entities will be subject to freight/distance variances | | | | | |
| | | *** pricing based on full truckloads | | | | | |
| | | **** 5 X 100 lb drum minimum | | | | | |
| | | ***** 50 X 50 lb per pallet | | | | | |
| | | ***** .2750 X 2000 X 70 | | | | | |
| | | ***** minimum delivery; 5 drums | | | | | |
| | | ***** f.o.b. destination terms: net 30 days from date of shipment; availability: 1-2 days after receipt of order; prices are firm for one year from date of award; in any event no later than 8/17/05. | | | | | |
| | | ***** vendor has stated its terms concerning warranties, damages, claims, and technical advise | | | | | |
| | | ***** does not meet specifications | | | | | |



LEE COUNTY
S O U T H W E S T F L O R I D A

PROJECT NO.: Q-040296

OPEN DATE: May 18,2004

AND TIME: 2:30 P.M.

PRE-BID DATE: May 3,2004

AND TLME: 10:00 a.m

LOCATION: Lee County Purchasing
1825 Hendry Street, 3rd Floor,
Ft. Myers, FL 33901

REQUEST FOR QUOTATIONS

ANNUAL PURCHASE OF ADDITIONAL CHEMICALS FOR UTILITIES

REQUESTER: LEE COUNTY BOARD OF COUNTY COMMISSIONERS
DIVISION OF PURCHASING

MAILING ADDRESS
P.O. BOX 398
FORT MYERS, FL 33902-0398

PHYSICAL ADDRESS
1825 Hendry St 3rd Floor
FORT MYERS, FL 33901

BUYER: CHEVONE PETERSON
PHONE NO.: (239) 344-5450

FORMAL QUOTATION NO.: Q-040296
GENERAL CONDITIONS

Sealed Quotations will be received by the DIVISION OF PURCHASING, until 2:30pm on the date specified on the cover sheet of this "Request for Quotations", and opened immediately thereafter by the Purchasing Director or designee.

Any question regarding this solicitation should be directed to the Buyer listed on the cover page of this solicitation, or by calling the Division of Purchasing at (239) 344-5450.

1. **SUBMISSION OF QUOTE:**

- a. Quotations shall be sealed in an envelope, and the outside of the envelope should be marked with the following information:
 - 1. Marked with the words "Sealed Quote"
 - 2. Name of the firm submitting the quotation
 - 3. Title of the quotation
 - 4. Quotation number

- b. The Quotation shall be submitted in triplicate as follows:
 - 1. The original consisting of the Lee County quotes forms completed and signed.
 - 2. A copy of the original quote forms for the Purchasing Director.
 - 3. A second copy of the original quote forms for use by the requesting department.

- c. The following should be submitted along with the quotation in a separate envelope. This envelope should be marked as described above, but instead of marking the envelope as "Sealed Quote", please indicate the contents; i.e., literature, drawings, submittals, etc. This information should be submitted in duplicate.
 - 1. Any information (either required or in addition to that asked for by the specifications) necessary to analyze your quotation; i.e., required submittals, literature, technical data, financial statements.
 - 2. Warranties and guarantees against defective materials and workmanship.

- d. **ALTERNATE QUOTE:** If the vendor elects to submit more than one quote, then the quotes should be submitted in separate envelopes and marked as indicated above. The second, or alternate quote should be marked as "Alternate".

- e. **QUOTES RECEIVED LATE:** It is the quoter's responsibility to ensure that his quote is received by the Division of Purchasing prior to the

opening date and time specified. Any quote received after the opening date and time will be promptly returned to the quoter unopened. Lee County will not be responsible for quotes received late because of delays by a third party delivery service; i.e., U.S. Mail, UPS, Federal Express, etc.

- f. **QUOTE CALCULATION ERRORS:** In the event there is a discrepancy between the total quoted amount or the extended amounts and the unit prices quoted, the unit prices will prevail and the corrected sum will be considered the quoted price.
- g. **PAST PERFORMANCE:** All vendors will be evaluated on their past performance and prior dealings with Lee County (i.e., failure to meet specifications, poor workmanship, late delivery, etc.).
- h. **WITHDRAWAL OF QUOTE:** No quote may be withdrawn for a period of 90 days after the scheduled time for receiving quotes. A quote may be withdrawn prior to the quote-opening date and time. Such a request to withdraw should be made in writing to the Purchasing Director, who will approve or disapprove of the request.
- i. **COUNTY RESERVES THE RIGHT:** The County reserves the right to waive minor informalities in any quote; to reject any or all quotes with or without cause; and/or to accept the quote that in its judgment will be in the best interest of the County of Lee.
- j. **EXECUTION OF QUOTE:** All quotes shall contain the signature of an authorized representative of the quoter in the space provided on the quote proposal form. All quotes shall be typed or printed in ink. The bidder may not use erasable ink. All corrections made to the quote shall be initialed.

2. **ACCEPTANCE**

The materials and/or services delivered under the quote **shall** remain the property of the seller until a physical inspection and actual usage of these materials and/or services is accepted by the County and is to be in compliance with the terms herein, fully in accord with the specifications and of the highest quality. In the event the materials and/or services supplied to the County are found to be defective or do not conform to specifications, the County reserves the right to cancel the order upon written notice to the seller and return such product to the seller at the seller's expense.

3. **SUBSTITUTIONS**

Whenever in these specifications a brand name or make is mentioned, it is the intention of the County only to establish a grade or quality of materials and not to rule out other brands or makes of equality. However, if a product other than that

specified is quote, it is the vendor's responsibility to name such product with his quote and to prove to the County that said product is equal to the product specified. Lee County **shall** be the sole judge as to whether a product being offered by the quoter is actually equivalent to the one being specified by the detailed specifications. (Note: This paragraph does not apply when it is determined that the technical requirements of this solicitation require only a specific product as stated in the detailed specifications.)

4. **RULES, REGULATIONS, LAWS, ORDINANCES & LICENSES**

The awarded vendor shall observe and obey all laws, ordinances, rules, and regulations, of the federal, state, and local government, which may be applicable to the supply of this product or service.

- a. Occupational License – Vendor shall submit within 10 calendar days after request.
- b. Specialty License(s) – Vendor shall possess at the time of the opening of the quote all necessary permits and/or license required for the sale of this product and/or service and upon the request of the County provide copies of licenses and/or permits within 10 calendar days after request.

5. **RECYCLED PRODUCTS**

It is the Lee County Board of County Commissioners' stated policy objective to "Ensure all departments are aware of the availability of recycled products..." (Administrative Code #AC-10-4). In an effort to provide the utmost opportunity for the use of recycled products by Lee County, vendors should list on their letterhead, all necessary information regarding any applicable recycled products they have available. Recycled products should meet all other specifications listed and have a minimum of 50%-recycled content. Whenever fiscally feasible, available recycled products will be purchased.

6. **WARRANTY/GUARANTY** (unless otherwise specified)

All materials and/or services furnished under this quote shall be warranted by the vendor to be free from defects and fit for the intended use.

7. **PRE-BID CONFERENCE**

A pre-bid conference will be held at the location, date, and time specified on the cover of this solicitation. Pre-bid conferences are generally non-mandatory, but it is highly recommended that everyone planning to submit a quote attend.

In the event a pre-bid conference is classified as mandatory, it will be so specified on the cover of this solicitation and it will be the responsibility of the quoter to

ensure that they are represented at the pre-bid. Only those quoters who attend the pre-bid conference will be allowed to quote on this project.

8. **BIDDERS LIST MAINTENANCE**

A bidder should respond to “Request for Quotations” in order to be kept on the Bidder’s List. Failure to respond to three different “request for quotations” may result in the vendor being removed from the Bidder’s List. A bidder may do one of the following, in order to respond properly to the request:

- a. Submission of a quotation prior to the quote receipt deadline.
- b. Submission of a “no bid” notice prior to the quote receipt deadline

9. **LEE COUNTY PAYMENT PROCEDURES**

All vendors are requested to mail one original invoice and one invoice copy to:

Lee County Finance Department
Post Office Box 2238
Fort Myers, FL 33902-2238

All invoices will be paid as directed by the Lee County payment procedure unless otherwise differently stated in the detailed specification portion of this quote.

Lee county will not be liable for request of payment deriving from aid, assistance, or help by any individual, vendor, quoter, or bidder for the preparation of these specifications.

Lee County is generally a tax-exempt entity subject to the provisions of the 1987 legislation regarding sales tax on services. Lee County will pay those taxes for which it is obligated, or it will provide a Certificate of Exemption furnished by the Department of Revenue. All contractors or quoters should include in their quote all sales or use taxes, which they will pay when making purchases of material or subcontractor’s services.

10. **LEE COUNTY BID PROTEST PROCEDURE**

Any contractor/vendor/firm that has submitted a formal bid/quote/proposal to Lee County, and who is adversely affected by an intended decision with respect to the award of the formal bid/quote/proposal, shall file with the County’s Purchasing Director or Public Works Director a written “Notice of Intent to File a Protest” not later than seventy-two (72) hours (excluding Saturdays, Sundays and Legal Holidays) after receipt of a “Notice of Intended Decision” from the County with respect to the proposed award of the formal bidquoteiproposal.

The “Notice of Intent to File a Protest” is one of two documents necessary to perfect Protest. The second document is the “Formal Written Protest”, both documents are described below.

The “Notice of Intent to File a Protest” document shall state all grounds claimed for the Protest, and clearly indicate it as the “Notice of Intent to File a Protest”. Failure to clearly indicate the Intent to file the Protest shall constitute a waiver of all rights to seek any further remedies provided for under this Protest Procedure.

The “Notice of Intent to File a Protest” shall be received (“stamped in”) by the Purchasing Director or Public Works Director not later than Four o’clock (4:00) PM on the third working day following the day of receipt of the County’s Notice of Intended Decision.

The affected party shall then file its Formal Written Protest within ten (10) calendar days after the time for the filing of the Notice of Intent to File a Protest has expired. Except as provided for in the paragraph below, upon filing of the Formal Written Protest, the contractor/vendor/firm shall post a bond, payable to the Lee County Board of County Commissioners in an amount equal to five percent (5%) of the total bid/quote/proposal, or Ten Thousand Dollars (\$10,000.00), whichever is less. Said bond shall be designated and held for payment of any costs that may be levied against the protesting contractor/vendor/firm by the Board of County Commissioners, as the result of a frivolous Protest.

A clean, Irrevocable Letter of Credit or other form of approved security, payable to the County, may be accepted. Failure to submit a bond, letter of credit, or other approved security simultaneously with the Formal Written Protest shall invalidate the protest, at which time the County may continue its procurement process as if the original “Notice of Intent to File a Protest“ had never been filed.

Any contractor/vendor/firm submitting the County’s standard bond form (CSD: 514), along with the bidquoteiproposal, shall not be required to submit an additional bond with the filing of the Formal Written Protest.

The Formal Written Protest shall contain the following:

- County bid/quote/proposal identification number and title.
- Name and address of the affected party, and the title or position of the person submitting the Protest.
- A statement of disputed issues of material fact. If there are no disputed material facts, the Formal Protest must so indicate.
- A concise statement of the facts alleged, and of the rules, regulations, statues, or constitutional provisions, which entitle the affected party to relief.

- All information, documents, other materials, calculations, and any statutory or case law authority in support of the grounds for the Protest.
- A statement indicating the relief sought by the affected (protesting) party.
- Any other relevant information that the affected party deems to be material to Protest.

Upon receipt of a timely filed “Notice of Intent to File a Protest”, the Purchasing Director or Public Works Director (as appropriate) may abate the award of the formal bid/quote/proposal as appropriate, until the Protest is heard pursuant to the informal hearing process as further outlined below, except and unless the County Manager shall find and set forth in writing, particular facts and circumstances that would require an immediate award of the formal bid/quote/proposal for the purpose of avoiding a danger to the public health, safety, or welfare. Upon such written finding by the County Manager, the County Manager may authorize an expedited Protest hearing procedure. The expedited Protest hearing shall be held within ninety-six (96) hours of the action giving rise to the contractor/vendor/firm’s Protest, or as soon as may be practicable for all parties. The “Notice of Intent to File a Protest” shall serve as the grounds for the affected party’s presentation and the requirements for the submittal of a formal, written Protest under these procedures, to include the requirement for a bond, shall not apply.

The Dispute Committee shall conduct an informal hearing with the protesting contractor/vendor/firm to attempt to resolve the Protest, within seven working days (excluding Saturdays, Sundays and legal holidays) from receipt of the Formal Written Protest. The Chairman of the Dispute Committee shall ensure that all affected parties may make presentations and rebuttals, subject to reasonable time limitations, as appropriate. The purpose of the informal hearing by the Dispute Committee, the protestor and other affected parties is to provide and opportunity: (1) to review the basis of the Protest; (2) to evaluate the facts and merits of the Protest; and (3) to make a determination whether to accept or reject the Protest.

Once a determination is made by the Dispute Committee with respect to the merits of the Protest, the Dispute Committee shall forward to the Board of County Commissioners its recommendations, which shall include relevant background information related to the procurement.

Upon receiving the recommendation from the Dispute Committee, the Board of County Commissioners shall conduct a hearing on the matter at a regularly scheduled meeting. Following presentations by the affected parties, the Board shall render its decision on the merits of the Protest.

If the Board’s decision upholds the recommendation by the Dispute Committee regarding the award, and further finds that the Protest was either

frivolous and/or lacked merit, the Board, at its discretion, may assess costs, charges, or damages associated with any delay of the award, or any costs incurred with regard to the protest. These costs, charges or damages may be deducted from the security (bond or letter of credit) provided by the contractor/vendor/firm. Any costs, charges or damages assessed by the Board in excess of the security shall be paid by the protesting contractor/vendor/firm within thirty (30) calendar days of the Board's final determination concerning the award.

All formal bid/quote/proposal solicitations shall set forth the following statement:

“FAILURE TO FOLLOW THE BID PROTEST PROCEDURE REQUIREMENTS WITHIN THE TIMEFRAMES AS PRESCRIBED HEREIN AND ESTABLISHED BY LEE COUNTY BOARD OF COUNTY COMMISSIONERS, FLORIDA, SHALL CONSTITUTE A WAIVER OF YOUR PROTEST AND ANY RESULTING CLAIMS.”

11. **PUBLIC ENTITY CRIME**

Any person or affiliate as defined by statute who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid or a contract to provide any goods or services to the County; may not submit a bid on a contract with the County for the construction or repair of a public building or a public work; may not submit bids or leases of real property to the County; may not be awarded or perform works as a contractor, supplier, subcontractor, or consultant under a contract with the County, and may not transact business with the County in excess of \$25,000.00 for a period of 36 months from the date of being placed on the convicted vendor list.

12. **QUALIFICATION OF QUOTERS** (unless otherwise noted)

Quotes will be considered only from firms normally engaged in the sale and distribution or provision of the services as specified herein. Quoters shall have adequate organization, facilities, equipment, and personnel to ensure prompt and efficient service to Lee County. The County reserves the right before recommending any award to inspect the facilities and organization; or to take any other action necessary to determine ability to perform is satisfactory, and reserves the right to reject quotes where evidence submitted or investigation and evaluation indicates an inability of the quoter to perform.

13. **MATERIAL SAFETY DATA SHEETS**

In accordance with Chapter 443 of the Florida Statutes, it is the vendor's responsibility to provide Lee County with Materials Safety Data Sheets on quoted materials, as may apply to this procurement.

14. **MISCELLANEOUS**

If a conflict exists between the General Conditions and the detailed specifications, then the detailed specifications shall prevail.

15. **WAIVER OF CLAIMS**

Once this contract expires, or final payment has been requested and made, the awarded contractor shall have no more than 30 days to present or file any claims against the County concerning this contract. After that period, the County will consider the Contractor to have waived any right to claims against the County concerning this agreement.

16. **AUTHORITY TO PIGGYBACK**

It is hereby made a precondition of any quote and a part of these specifications that the submission of any quote in response to this request constitutes a quote made under the same conditions, for the same price, and for the same effective period as this quote, to any other governmental entity.

17. **COUNTY RESERVES THE RIGHT**

a) **State Contract**

If applicable, the County reserves the right to purchase any of the items in this quote from State Contract Vendors if the prices are deemed lower on State Contract than the prices we receive in this quotation.

b) **Any Single Large Project**

The County, in its sole discretion, reserves the right to separately quote any project that is outside the scope of this quote, whether through size, complexity, or dollar value.

c) **Disadvantaged Business Enterprises**

The County, in its sole discretion, reserves the right to purchase any of the items in this quote from Disadvantage Business Enterprise vendor if the prices are determined to be in the best interest of the County, to assist the County in the fulfillment of any of the County's grant commitments to federal or state agencies.

The County further reserves the right to purchase any of the items in this quote from DBE's to fulfill the County's state policy toward DBE's as outlined in County Ordinance 88-45 and 90-04, as amended.

d) Anti-Discrimination

The vendor for itself, its successors in interest, and assignees, as part of the consideration there of covenant and agree that:

In the furnishing of services to the County hereunder, no person on the grounds of race, religion, color, age, sex, national origin, handicap or marital status shall be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination.

The vendor will not discriminate against any employee or applicant for employment because of race, religion, color, age, sex, national origin, handicap or marital status. The vendor will make affirmative efforts to insure that applicants are employed and that employees are treated during employment without regard to their race, religion, color, age, sex, national origin, handicap or marital status. Such action shall include, but not be limited to, acts of employment, upgrading, demotion or transfer; recruitment advertising; layoff or termination, rates of pay or other forms of compensation and selection for training, including apprenticeship.

Vendor agrees to post in a conspicuous place, available to employees and applicants for employment, notices setting forth the provisions of this anti-discrimination clause.

Vendor will provide all information and reports required by relevant regulations and/or applicable directives. In addition, the vendor shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the County to be pertinent to ascertain compliance. The vendor shall maintain and make available relevant data showing the extent to which members of minority groups are beneficiaries under these contracts.

Where any information required of the vendor is in the exclusive possession of another who fails or refuses to furnish this information, the vendor shall so certify to the County its effort made toward obtaining said information. The vendor shall remain obligated under this paragraph until the expiration of three (3) years after the termination of this contract.

In the event of breach of any of the above anti-discrimination covenants, the County shall have the right to impose sanctions as it may determine to be appropriate, including withholding payment to the vendor or canceling, terminating, or suspending this contract, in whole or in part.

Additionally, the vendor may be declared ineligible for further County contracts by rule, regulation or order of the Board of County Commissioners of Lee County, or as otherwise provided by law.

The vendor will send to each union, or representative of workers with which the vendor has a collective bargaining agreement or other contract of understanding, a notice informing the labor union of worker's representative of the vendor's commitments under this assurance, and shall post copies of the notice in conspicuous places available to the employees and the applicants for employment.

The vendor will include the provisions of this section in every subcontract under this contract to insure its provisions will be binding upon each subcontractor. The vendor will take such actions with respect to any subcontractor, as the contracting agency may direct, as a means of enforcing such provisions, including sanctions for non-compliance.

18. **AUDITABLE RECORDS**

The awarded vendor shall maintain auditable records concerning the procurement adequate to account for all receipts and expenditures, and to document compliance with the specifications. These records shall be kept in accordance with generally accepted accounting methods, and Lee County reserves the right to determine the record-keeping method required in the event of non-conformity. These records shall be maintained for two years after completion of the project and shall be readily available to County personnel with reasonable notice, and to other persons in accordance with the Florida Public Disclosure Statutes.

19. **DRUG FREE WORKPLACE**

Whenever two or more quotes/proposals, which *are* equal with respect to price, quality and service, are received for the procurement of commodities or contractual services, a quote/proposal received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. In order to have a drug-free workplace program, a business shall comply with the requirements of Florida Statutes 287.087.

20. **REQUIRED SUBMITTALS**

Any submittals requested should be returned with the quote response. This information may be accepted after opening, but no later than 10 calendar days after request.

21. **TERMINATION**

Any agreement as a result of this quote may be terminated by either party giving thirty (30) calendar days advance written notice. The County reserves the right to accept or not accept a termination notice submitted by the vendor, and no such termination notice submitted by the vendor shall become effective unless and until the vendor is notified in writing by the County of its acceptance.

The Purchasing Director may immediately terminate any agreement as a result of this quote for emergency purposes, as defined by the Lee County Purchasing and Payment Procedure Manual.

Any vendor who has voluntarily withdrawn from a formal quote/proposal without the County's mutual consent during the contract period shall be barred from further County procurement for a period of 180 days. The vendor may apply to the Board of Lee County Commissioners for waiver of this debarment. Such application for waiver of debarment must be coordinated with and processed by Purchasing.

22. CONFIDENTIALITY

Vendors should be aware that all submittals (including financial statements) provided with a quote/proposal are subject to public disclosure and will **not** be afforded confidentiality.

23. ANTI-LOBBYING CLAUSE

All firms are hereby placed on formal notice that neither the County Commissioners nor candidates for County Commission, nor any employees from the Lee County Government, Lee County staff members, nor any members of the Qualification/Evaluation Review Committee are to be lobbied, either individually or collectively, concerning this project. Firms and their agents who intend to submit qualifications, or have submitted qualifications, for this project are hereby placed on *formal notice* that they are **not** to contact County personnel for such purposes as holding meetings of introduction, meals, or meetings relating to the selection process outside of those specifically scheduled by the County for negotiations. Any such lobbying activities may cause immediate disqualification for this project.

24. INSURANCE (AS APPLICABLE)

Insurance shall be provided, per the attached insurance guide. Upon request, an insurance certificate complying with the attached guide may be required prior to award.

FORMAL QUOTATION NO.: Q-040296
**LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES**

DATE SUBMITTED: _____

VENDOR NAME: _____

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions". and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

GRAND TOTAL (ALL SECTIONS): \$ _____

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO _____

NOTE: Prices shall include firm delivered prices within the minimum/maximum quantity ranges F.O.B., Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: _____

\$ _____ EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: _____

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Minimax 500 – 2,500 Ibs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: _____

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____

Minimax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: _____

\$ _____ EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Minimax 25 tons

SECTION 5, POLYMER

Specify product name: _____

\$ _____ EA. X 16,400 Ibs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2154G or equal**

Min/max 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: _____

\$ _____ EA. X 600 Ibs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2244G or equal**

Minimax 600 Ibs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: _____

\$ _____ EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ _____

Manufacturer _____ **Ciba Specialty Chemicals Zetag 7848 or equal**

Minimax – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: _____

\$ _____ EA. X 70,000 lbs = Total Cost \$ _____

Manufacturer _____ **Shannon SNC-RS2 or equal**

Min/max 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: _____

\$ _____ EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer _____

Minimax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: _____

\$ _____ EA. X 5,491 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 tons

SECTION SA, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: _____

\$ _____ EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: _____

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Midmax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: _____

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: _____

\$ _____ EA. X 16,300 gallons = Total Cost \$ _____

Manufacturer _____

Midmax 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: _____

\$ _____ EA. X 34 tons = Total Cost \$ _____

Manufacturer _____

Minimax 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: _____

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer _____

Minimax 500 – 3,000 gallons

TO BE STARTED WITHIN _____ CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No _____

If yes, then read the paragraph entitled “Local Vendor Preference” included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County’s Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County’s Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIWLGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME _____

BY (Printed): _____

BY (Signature): _____

TITLE: _____

FEDERAL ID # OR S.S.# _____

ADDRESS: _____

PHONE NO.: _____

FAX NO.: _____

CELLULAR PHONE/PAGER NO.: _____

LEE COUNTY OCCUPATIONAL LICENSE NUMBER: _____

E-MAIL ADDRESS: _____

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY, FLORIDA
DETAILED SPECIFICATIONS
FOR THE ANNUAL PURCHASE OF
ADDITIONAL CHEMICALS FOR UTILITIES

SCOPE

The purpose of this quotation is to solicit prospective bidders to furnish and deliver various water and wastewater chemicals on an annual basis for use at Lee County Utilities.

TERM OF QUOTE

This quote shall be in effect for one year, or until new quotes are taken and awarded. This quote (or any portion thereof) has the option of being renewed for four additional one-year periods, upon mutual agreement of both parties, under the same terms and conditions.

DELIVERY REQUIREMENTS

Quotes are to be based on firm prices delivered F.O.B., as directed to the locations specified herein, Lee County, Florida.

The County reserves the right to add or delete delivery sites at its discretion at anytime throughout the term of this quote.

Delivery driver must present a photo I.D. upon delivery. The I.D. must show that the driver is an employee of either the trucking company or the awarded vendor. All personnel making deliveries must wear the appropriate personal protective equipment (PPE as required by the MSDS).

Lee County Utilities reserves the right to refuse a delivery if that delivery is not in the proper timeframe; the vendor has improper equipment to offload the delivery; and/or is taking improper safety precautions or has malfunctioning equipment.

BASIS OF AWARD

Lee County reserves the right, at the Purchasing Director's discretion, not to award certain items on the Proposal Quote Form.

The basis of award may be by section or overall low quoter meeting specifications. Award shall include ~~firm~~ delivered prices within the minimummaximum quantity ranges F.O.B., Lee County, Florida to the delivery locations as specified.

It is not required to quote on all sections; however, it is required to quote on all items within a section to be considered for an award of that section. Lee County reserves the right to alter from this quote should a process or special condition deem it necessary. The new chemicals may or may not be selected through the current vendor.

NOTE: Each section will be evaluated and awarded on an individual basis. For example: Section 5 will be evaluated and awarded separately from Section 5A.

Due to the diversity of items listed Lee County reserves the right to award this quote which best serves the interest of Lee County; i.e.: to a single vendor, to multiple vendors, or by a primary/secondary vendor basis, at Lee County's sole discretion.

Lee County reserves the right to reject unbalanced quotes (a quote where a normally low cost item is priced well out of the normal range).

SUBMITTALS

Vendor must have written proof of conformance as required in technical specifications.

NATIONAL RESPONSE CENTER

The bidder shall provide a detailed listing of all accidents, incidents, releases, spills, and National Response Center notifications ("safety incidents") for all chemicals it delivers or manufacturers for the past five (5) years.

The bidder shall also provide the names of any customers where its contract was terminated early (e.g., debarred) for safety, quality, or service issues for any product it supplies over the past five years. Failure to disclose references, terminations, or safety incidents will result in Bidder being disqualified from bidding on this product.

For purposes of this Bid, the term "Bidder" shall be defined as the vendor submitting the proposal and shall include all subsidiaries, affiliates, and subcontractors. As such, any requested documentation shall apply to all subsidiaries and affiliated companies as well as any subcontractors. In the event that a vendor is using a subcontractor to either manufacture or deliver the product, the requested items (e.g., references, terminations, and safety incidents) shall apply to the subcontractor as well.

MINIMUM ORDER QUANTITIES

If Lee County requires less than the minimum order quantity stated on the Proposal Quote Form, Lee County will contact the awarded vendor to receive that product at the same quoted price or obtain alternate firm delivered pricing for that product. Lee County reserves the right to accept that price or go elsewhere.

PRICE ESCALATION

If the awarded vendor(s) experiences a major price increase from suppliers for items in this quotation, the vendor may submit a written request to increase pricing. All information necessary to review and analyze the request must be submitted to Lee County Purchasing. Lee County shall have the right to grant the price increase, or re-quote, at the County's sole discretion. Should prices decrease, the same procedure shall apply.

QUANTITY PRICE BREAKS

If your firm can offer quantity price breaks to Lee County on any items listed, specify item(s), quantity breaks and pricing on company letterhead. The prices offered on the Proposal Quote Form will form the basis of award.

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

ATTACHMENT

3

DATE SUBMITTED: MAY 10, 2004

VENDOR NAME: GENERAL CHEMICAL

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined *the* "General Conditions", and *the* "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish *the* following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

NONE RECEIVED

GRAND TOTAL (ALL SECTIONS): \$ 356,480.00

WILL YOU DELIVER WITH *YOUR OWN* VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____

NO XX GENERAL CHEMICAL UTILIZES BOTH SELLERS TRUCK AND COMMON CARRIER.

NOTE: Prices shall include firm delivered prices within the minimum maximum quantity ranges F.O.B., Lee County Florida to the delivew locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: LIQUID ALUMINUM SULFATE

*\$ 160.00/TON EA. X 2,228 dry tons = Total Cost \$ 356,480.00

Manufacturer GENERAL CHEMICAL

Min/max 500-5,000 gallons

*F.O.B. DESTINATION. TERMS: NET 30 DAYS FROM DATE OF SHIPMENT. AVAILABILITY: 1-2 DAYS AFTER RECEIPT OF ORDER. PRICE IS FIRM FOR A PERIOD OF ONE YEAR FROM DATE OF AWARD, BUT IN ANY EVENT NO LATER THAN AUGUST 17, 2005. PRODUCT SAFETY DATA SHEET IS ENCLOSED. REQUIRED SUBMITTALS (SPECIFICATION SHEET, NSF, CERTIFICATION, LITERATURE, ETC.) SENT UNDER SEPARATE COVER.

SECTION 2, ANHYDROUS AMMONIA

Specify product name: _____

\$ _____ EA. X 70 tons = Total Cost \$ _____ **

Manufacturer _____

Min/max 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: _____

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____ **

Minimax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: _____

\$ _____ EA. X 40 tons = Total Cost \$ _____ **

Manufacturer _____

Minimax 25 tons

SECTION 5, POLYMER

Specify product name: _____

\$ _____ EA. X 16,400 lbs = Total Cost \$ _____ **

Manufacturer _____ **Calciquest 2154G or equal**

Minimax 600 – 2,000 lbs

SECTION 5A. POLYMER

Specify product name: _____

\$ _____ EA. X 600 lbs = Total Cost \$ _____ **

Manufacturer _____ **Calciquest 2244G or equal**

Minimax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: _____

\$ _____ EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ _____ **

Manufacturer _____ **Ciba Specialty Chemicals Zetag 7848 or equal**

Midinax – four (4) 55 gallon drums

SECTION 6. POLYPHOSPHATE

Specify product name: _____

\$ _____ EA. X 70,000 lbs = Total Cost \$ _____ **

Manufacturer _____ **Shannon SNC-RS2 or equal**

Minimax 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: _____

\$ _____ EA. X 40,000 lbs = Total Cost \$ _____ **

Manufacturer _____

Min/max 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: _____

\$ _____ EA. X 5,491 tons = Total Cost \$ _____ **

Manufacturer _____

Min/max 25 tons

**** REGRET NO BID, DO NOT MANUFACTURE.**

SECTION 8A, QUICKLIME, (FOUNDRY size: -3/8 x 1116)

Specify product name: _____

\$ _____ EA. X 30 tons = Total Cost \$ _____ **

Manufacturer _____

Min/max 25 -- 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name _____

\$ _____ EA X 3,000 gallons = Total Cost \$ _____ **

Manufacturer _____

Minimax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name _____

\$ _____ EA X 90 dry tons = Total Cost \$ _____ **

Manufacturer _____

Minimax 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name _____

\$ _____ EA X 16,300 gallons = Total Cost \$ _____ **

Manufacturer _____

Min/max 250 – 1,500 gallons

** REGRET NO BID, DO NOT MANUFACTURE.

SECTION 12, SULFUR DIOXIDE

Specify product name: _____

\$ _____ EA. X 34 tons = Total Cost \$ _____ **

Manufacturer _____

Midinax 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: _____

\$ _____ EA. X 120 tons = Total Cost \$ _____ ***

Manufacturer _____

Min/max 500 – 3,000 gallons

**** REGRET NO BID, DO NOT MANUFACTURE.**

***** REGRET NO BID, AT THIS TIME.**

TO BE STARTED WITHIN 1-2 CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No **x** _____

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No **x** _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDEF

FIRM NAME GENERAL CHEMICAL

BY (Printed): KIM A. BOYER

BY (Signature): 

TITLE: MANAGER, CUSTOMER SERVICE SYSTEM

FEDERAL ID #OR S.S.# 74-3104940

ADDRESS: 90 EAST HALSEY ROAD

PARSIPPANY, NJ 07054

PHONE NO.: 800-631-8050

FAX NO.: 973-515-3232

CELLULAR PHONE/PAGER NO.: _____

LEE COUNTY OCCUPATIONAL LICENSE NUMBER _____

E-MAIL ADDRESS: KBOYER@GENCHEM CORP.COM

REVISED: 7/28/00

2. Verification of Coverage:

a. Ten (10) days prior to the commencement of any work under this contract a certificate of insurance will be provided to the Risk Manager for review and approval. The certificate shall provide for the following:

1. ***"Lee County, a political subdivision and Charter County of the State of Florida, its agents, employees, and public officials@ will be named as an "Additional Insured" on the General Liability policy.***
2. Lee County will be given thirty (30) days notice prior to cancellation or modification of any stipulated insurance. Such notification will be in writing by registered mail, return receipt requested and addressed to the Risk Manager (P.O. BOX 398 Ft. Myers, FL 33902).

3. Special Requirements:

- a. An appropriate "Indemnification" clause shall be made a provision of the contract.
- b. It is the responsibility of the general contractor to insure that all subcontractors comply with all insurance requirements.

FORMAL QUOTATION NO. Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 4
(3 PLANT EMPLOYEES, AND SALES REPRESENTATIVE)
2. Describe the types and amount of equipment you have available to service this contract.

- 3 STORAGE TANKS FOR FINISHED MATERIAL
- BAUXITE AND ACID TANKS FOR RAW MATERIALS
- 1 PRIVATE TRUCK, COMMON CARRIER SERVICE

- 3 Describe the types and amount of material stock that you have available to service this contract

240 DRY TONS OF ALUM STORAGE CAPACITY AT PLANT.

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes xx No

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

GENERAL CHEMICAL WON THE ALUMINUM SULFATE BID IN SEPTEMBER 1994.

STARTING IN MAY 1995, GENERAL CHEMICAL SUPPLIED LEE COUNTY THROUGH

ST ENVIRONMENTAL. GENERAL CHEMICAL WON THE BID IN MAY 2001 DIRECTLY,

AND HAS SUPPLIED LEE COUNTY SINCE THEN.

FORMAL QUOTATION NO. :Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.
Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided
- 7. All addendum issued, if any, have been acknowledged in the space provided.
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. Any Delivery information required is included
- 11. The mailing envelope has been addressed to:

| | | |
|--------------------------|----|---|
| MAILING ADDRESS | | PHYSICAL ADDRESS |
| Lee County Purchasing | | Lee County Purchasing |
| P.O. Box 398 | or | 1825 HENDRY STREET, 3 RD FLOOR |
| Ft. Myers, FL 33902-0398 | | Ft. Myers, FL 33901 |
- 12. The mailing envelope **MUST** be sealed and marked with:
Quote Number
Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
- 14. If submitting a "NO BID" please write quote number here _____ and check one of the following:
 - _____ Do not offer this product _____ Insufficient time to respond.
 - _____ Unable to meet specifications (why)
 - _____ Unable to meet bond or insurance requirement.
 - Other: _____

Company Name and Address:

GENERAL CHEMICAL

90 EAST HALSEY ROAD
PARSIPPANY, NJ 07054



Customer Service System

90 East Halsey Road
Parsippany, NJ 07054
Tel: 800-631-8050

RE: BID ON ALUMINUM SULFATE

The current typical analysis for Liquid Aluminum Sulfate is as follows:

| | |
|---|------|
| % Total Soluble Al ₂ O ₃ | 8.25 |
| % Free Al ₂ O ₃ | 0.1 |
| % Total Iron (as Fe ₂ O ₃) | 0.2 |
| % Actual Fe ₂ O ₃ | 0.03 |
| % Insoluble in water | 0.01 |

This is to certify that Aluminum Sulfate as produced by General Chemical will meet ANSI/AWWA Standard B-403-03 in every respect.

Kim A. Boyer
Manager, Customer Service System

Subscribed and sworn to before me this 14th day of May 2004.

Notary Public of New Jersey

LISA BROWNLEE
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES NOV. 19, 2007



ENVIRONMENTAL MATTERS DEPARTMENT

90 EAST HALSEY ROAD
PARSONS, NJ 07054
TELEPHONE: (973) 515-0900
FACSIMILE: (973) 515-3244

May 13, 2004

RE: National Response Center Notifications – Aluminum Sulfate

General Chemical has had no notifications to the National Response Center for Aluminum Sulfate in the past five (5) years. We do not have all chemicals available at this time but National Response Center makes this information publicly available.

General Chemical is a member of the American Chemistry Council (ACC) and adheres to the guiding principles of Responsible Care.

If you have any questions, please do not hesitate to contact the Environmental, Health and Safety (EHS) Department. Thank you for your interest in General Chemical products.

GENERAL CHEMICAL, LLC

Certification of an

Alcohol and Drug-Free Workplace

General Chemical, LLC certifies that it has a Drug-Free Workplace Policy and an ongoing alcohol and drug awareness program.

The Company is responsible for informing each of its employees of his or her responsibilities under this certification.

All persons on the Company's payroll who work on any activity under the contract are covered by this certification. The workplace is defined as wherever activity under this contract occurs.

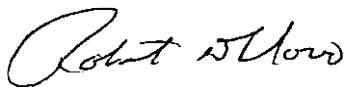
The Company agrees that it will obtain identical certifications from proposed vendors prior to the award of contracts and that it will retain such certifications in its files.

False certification, violation of certification, or failing to make a good faith effort to provide a drug-free workplace shall be considered a breach of contract.

The Company further certifies that it will promptly provide such documentation and other evidence of compliance as required.

May 10,

Date



Robert D. Novo

Vice President, Human Resources

Lee County: Product & Safety Training for Aluminum Sulfate

Course Outline

1. Product Training
 - a) Product Safety Guidelines
 - b) Product Storage & Handling Guidelines
 - c) Product Transportation Regulations

2. Product Application
 - a) NSF Suggested Parameters
 - b) Alum Dosage Calculations
 - c) Performance Parameters

3. Question & Answer Session

Possible Course Instructors:

Pete Pettyjohn
Michael Valdez
Tom Coughlin
Karen Ruehl, PhD

Suggested Course Dates*:

August 3rd, 2004: 8 a.m. -- 12 p.m.
February 3rd, 2005: 8 a.m. -- 12 p.m.

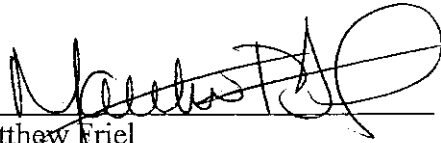
*Dates subject to change based on availability of instructors and upon agreement with County.

DELEGATION OF AUTHORITY

I, Matthew Friel, a Vice President of General Chemical Performance Products LLC, do hereby delegate and appoint the following employees of General Chemical Performance Products LLC to execute all contracts and instruments, including bids, proposals and quotations, which in the ordinary course of business are processed by the Customer Service Group of the Company:

Kim A. Boyer
Gregory A. Galemore
Lisa A. Brownlee
Christine Amato

Set forth below is a certified copy of the resolution of the Company authorizing such action.



Matthew Friel
Vice President

CERTIFICATE OF ASSISTANT SECRETARY

I, Mark Sustana, hereby certify that I am Assistant Secretary of GENERAL CHEMICAL PERFORMANCE PRODUCTS LLC, a Delaware limited liability company, and that set forth below is a true and correct copy of resolution of the Board of Directors, adopted by unanimous written Consent as of the 10th day of November, 2003, and that the same has not been modified or revoked and is on the date hereof in full force and effect:

RESOLVED that any officer of the Company he, and he hereby is, authorized to delegate, with the right of further delegation, to any other officer, employee or agent of the Company, all or any part of the authority granted to them by the Board of Directors; and that any such delegations may be general or specific and subject to such limitations and restrictions as the delegating officer shall determine.

I FURTHER CERTIFY that Matthew Friel is a duly elected Vice President of the Company and holds such office on the date hereof, and that set forth below is the genuine signature of such officer:



Matthew Friel

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Company this 6th day of January, 2004.

[SEAL]

Mark Sustana
Assistant Secretary





Customer Service System

90 East Halsey Road
Parsippany, NJ 07054
Tel: 800-631-8050

RESUME OF GENERAL CHEMICAL'S EXPERIENCE

General Chemical is a world-wide producer and supplier of Specialty, Industrial Chemicals, and Water Treatment Chemicals operating since 1899.

General Chemical customer service phone line is available 24 hours a day to handle customer emergencies, and our nationally recognized technical center is available free of charge, to help resolve any water treatment problems you may encounter.

REFERENCES FOR LIQUID ALUMINUM SULFATE

1. City of Orlando
400 S. Orange Avenue
Orlando, FL 32801

Contact Richard Nagel
(407) 246-2291

2. City of Cape Coral
1039 SE 9th Place
Cape Coral, FL 33990

Contact: Chris Hoffman
(941) 574-0841

3. City of Sarasota
1565 1st Street
Sarasota, FL 34236

Contact: Robert Gerkin
(941) 954-4190

4. Manatee County
1112 Manatee Avenue West
Bradentown, FL 34205

Contact: Deborah Carey Reed
(941) 749-3074

5. City of Fort Myers
1820 Hendry Street
Fort Myers, FL 33902

Contact: Colleen Glidden
(941) 332-6794



NSF International

July 22, 2003

MS. DENISE CROTTY
GENERAL CHEMICAL CORPORATION
90 EAST HALSEY ROAD
PARSIPPANY, NJ 07054

Re: Revised Official Listing
Standard 60

Dear Ms. Crotty:

It **is** my pleasure to enclose **YOUR** revised Official Listing. Please review it for accuracy, including footnotes. If you have any questions or concerns about this revision, please promptly contact your NSF Representative.

GENERAL CHEMICAL CORPORATION is authorized to **use** the NSF Mark for products specified on this Official Listing.

As an NSF Listed Company, you are responsible for compliance with all NSF requirements for Certification services. Please note that your Listed products must bear the NSF Mark unless specifically exempted by **policy**.

The following change has been made to your Official Listing: Addition of Hyper+Ion®9505 at Springfield, TN facility.

Sincerely

A handwritten signature in cursive script that reads "Connie L. Berry".

Connie L. Berry, Manager
Certification Records



OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of NSF/ANSI Standard 60 - Drinking Water Treatment Chemicals - Health Effects

This is the Official Listing recorded on July 22, 2003.

GENERAL CHEMICAL CORPORATION
90 EAST HALSEY ROAD
PARSIPPANY, NJ 07054
800-631-8050
973-515-1840

Plant At: # 1 GREEN RIVER, WY

Table with 3 columns: Chemical/Trade Designation, Function, Max Use. Row 1: Sodium Carbonate, Corrosion & Scale Control, 100 mg/L. Row 2: Sodium Carbonate (Soda Ash Dense), pH Adjustment.

Plant At: # 2 GREEN RIVER, WY

Table with 3 columns: Chemical/Trade Designation, Function, Max Use. Row 1: Sodium Carbonate, Corrosion & Scale Control, 100 mg/L. Row 2: Sodium Carbonate (Soda Ash Dense), pH Adjustment.

Plant At: # 30 USA

Table with 3 columns: Chemical/Trade Designation, Function, Max Use. Rows include Aluminum Sulfate [AL], Aluminum Sulfate, Aluminum sulfate Solution, Aluminum Sulfate Solution Iron Free, and Liquid Alum.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: #2640 USA

Table with 3 columns: Chemical/Trade Designation, Function, Max Use.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

Aluminum Sulfate IALI

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: ASHDOWN, AR

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum sulfate | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum Acidized 0.5-5.0% | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A20 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 701 | Coagulation & flocculation | 153 mg/L |
| Gen+Pas [®] 733 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: PINE BLUFF, AR

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate IALI | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum sulfate | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 mg/L |
| Polymer Blends [AL] | | |
| Clar+Ion [®] A501.8P | Coagulation & Flocculation | 190 mg/L |

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[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should **not exceed 2 mg/L**

Plant At: PITTSBURG, CA

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Chlorohydrate [AL] | | |
| Gen+Pac [®] 2370 | Coagulation & flocculation | 250 mg/L |
| Hyper+Ion [®] 1090 | Coagulation & Flocculation | 280 mg/L |
| PAC [®] 2370 | Coagulation & Flocculation | 280 mg/L |
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A18 | Coagulation & flocculation | 150 mg/L |
| Clar+Ion [®] A20 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum Acidized 0.5-5.0% | Coagulation & Flocculation | 150 mg/L |
| Polyaluminum Chloride [AL] | | |
| Gen+Pac [®] 1000 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1010 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1030 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1050 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1050S | Coagulation & Flocculation | 150 mg/L |
| Gen+Pac [®] 1070 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1230 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1270 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 2310 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1000 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1020 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1021 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1026 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1030 | Coagulation & Flocculation | 250 mg/L |

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| | | | |
|--------------------------------------|----------------------------|-----|------|
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1093 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 2021 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 2370 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blends (AL) (PD) (PY) | | | |
| Clar+Ion [®] A40SP | Coagulation & Flocculation | 151 | mg/L |
| Clar+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] A415P | Coagulation & Flocculation | 86 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 55 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 131 | mg/L |
| Clar+Ion [®] A520 | Coagulation & Flocculation | 100 | mg/L |
| Clar+Ion [®] 505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] 510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] 515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion [®] 4050 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 4055 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 4100 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 5057 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 5100 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac [®] 670-SA | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac [®] 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac [®] 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pac [®] 1000-10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac [®] 1000-5A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac [®] 1270-35A | Coagulation & Flocculation | 37 | mg/L |
| Gen+Pac [®] 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac [®] 1270-15A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1270-15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pac [®] 1270-5A | Coagulation & Flocculation | 260 | mg/L |
| Gen+Pac [®] 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac [®] TA-800-1 | Coagulation & Flocculation | 151 | mg/L |
| Gen+Pas [®] 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 5B | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [®] 10B | Coagulation & Flocculation | 166 | mg/L |
| Gen+Pas [®] 15A | Coagulation & Flocculation | 86 | mg/L |
| Gen+Pas [®] 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas [®] 20A | Coagulation & Flocculation | 65 | mg/L |

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| | | | |
|------------------------------------|----------------------------|------------|------|
| Gen+Pas [§] 20B | Coagulation & Flocculation | 131 | mg/L |
| Gen+Pas [§] 55A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [§] 75B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [§] 105A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [§] 1010A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [§] 1010B | Coagulation & Flocculation | 150 | mg/L |
| Hyper+Ion [§] A405P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [§] A410P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion[§] A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [§] A510P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [§] 1050A | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion [§] 1527 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [§] 1530 | coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion [§] 2050A | Coagulation & Flocculation | 150 | mg/L |
| Hyper+Ion [§] 2527 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [§] 2530 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [§] 2550 | Coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion [§] 3530 | Coagulation & Flocculation | 30 | mg/L |
| Hyper+Ion [§] 4530 | Coagulation & Flocculation | 57 | mg/L |
| Hyper+Ion [§] 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion [§] 6515 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [§] 11027 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [§] 21027 | Coagulation & Flocculation | 130 | mg/L |

(AL) Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

IPDI Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: AMHERSTBURG, ONTARIO, CANADA

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|---------------------------|---------|------|
| Calcium Chloride | | | |
| Calcium Chloride | Other | 200 | mg/L |
| Flake Calcium Chloride | Other | 200 | mg/L |
| Liquid Calcium chloride | Other | 200 | mg/L |
| Sodium Carbonate | | | |
| Soda Ash | Corrosion & scale Control | 100 | mg/L |
| Soda Ash Dense | Corrosion & scale control | 100 | mg/L |
| Soda Ash Light | Corrosion & scale Control | 100 | mg/L |
| Sodium Carbonate | Corrosion & scale Control | 100 | mg/L |

Plant At: BURNABY, BRITISH COLUMBIA, CANADA

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking Water should not exceed 2 mg/L.

Plant At: CAMPBELLTON, NEW BRUNSWICK, CANADA

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: NELLIE LAKE, ONTARIO, CANADA

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^{IALI} | | | |
| Alum | coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: THUNDER BAY, ONTARIO, CANADA

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^{IALI} | | | |
| Alum | coagulation & Flocculation | 150 | mg/L |
| Aluminum sulfate | coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking Water should not exceed 2 mg/L.

Plant At: THOROLD, ONTARIO, CANADA

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

| Chemical/ Trade Designation | Function | Max Use | |
|--|----------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] a20 | coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 | mg/L |
| Liquid alum | Coagulation & Flocculation | 150 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Gen+Pac [®] 1000 | coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1010 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050S | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1070 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1230 | coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1270 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 2370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1000 | coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1020 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1021 | Coagulation & flocculation | 250 | mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1026 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1090 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 2021 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1000 | Coagulation & flocculation | 250 | mg/L |
| PAC [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 2310 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride [AL] [PD] | | | |
| Polymer Blends | | | |
| Clar+Ion [®] A405P | Coagulation & Flocculation | 158 | mg/L |
| Clar+Ion [®] A410P | Coagulation & flocculation | 167 | mg/L |
| Clar+Ion [®] A415P | Coagulation & Flocculation | 167 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 125 | mg/L |
| Clar+Ion [®] A501.5P | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion [®] A502.5P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 106 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 133 | mg/L |

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| | | | |
|------------------------------------|---------------------------------------|-----|------|
| Clar+Ion ^d A520P | Coagulation & Flocculation | 191 | mg/L |
| Gen+Pac ^e 1000-10A | Coagulation & Flocculation | 278 | mg/L |
| Gen+Pac ^f 1000-10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ^g 1000-5A | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac ^h 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ⁱ 1270-15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pac ^j 1270-15B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac ^k 1270-35A | Coagulation & Flocculation | 71 | mg/L |
| Gen+Pac ^l 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac ^m 1270-5A | Coagulation & Flocculation | 480 | mg/L |
| Gen+Pac ⁿ 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac^o 2270-5C | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac ^p 670-5A | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ^q 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac ^r 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pas ^s 10A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ^t 10B | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ^u 15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ^v 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas ^w 20A | Coagulation & Flocculation | 125 | mg/L |
| Gen+Pas ^x 20B | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas ^y 5A | Coagulation & Flocculation | 158 | mg/L |
| Gen+Pas ^z 5B | Coagulation & Flocculation | 157 | mg/L |
| Hyper+Ion ¹ 10504 | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion² 11021 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ³ 1527 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ⁴ 1530 | Coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion ⁵ 20504 | Coagulation & Flocculation | 500 | mg/L |
| Hyper+Ion⁶ 21027 | Coagulation & Flocculation | 278 | mg/L |
| Hyper+Ion ⁷ 2527 | Coagulation & Flocculation | 263 | mg/L |
| Hyper+Ion ⁸ 2530 | Coagulation & Flocculation | 480 | mg/L |
| Hyper+Ion ⁹ 2550 | Coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion¹⁰ 3530 | Coagulation & Flocculation | 71 | mg/L |
| Hyper+Ion ¹¹ 4530 | Coagulation & Flocculation | 57 | mg/L |
| Hyper+Ion ¹² 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion ¹³ 6515 | Coagulation & Flocculation | 167 | mg/L |
| Hyper+Ion ¹⁴ A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ¹⁵ A510P | Coagulation & Flocculation | 200 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

Plant At: VALLEYFIELD, QUEBEC. CANADA

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------|---------|
|--------------------------------|----------|---------|

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

| | | | |
|-----------------------------------|----------------------------|-----|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Gen+Pac [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1010 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050S | Coagulation & Flocculation | 25P | mg/L |
| Gen+Pac [®] 1070 | Coagulation & Flocculation | 25C | mg/L |
| Gen+Pac [®] 1230 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1270 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 2370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1020 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1026 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1090 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 2021 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 2370 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blends [AL] [PD] | | | |
| Clar+Ion [®] 402 | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A402P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A405P | Coagulation & Flocculation | 158 | mg/L |
| Clar+Ion [®] A410P | Coagulation & Flocculation | 167 | mg/L |
| Clar+Ion [®] A415P | Coagulation & Flocculation | 167 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 125 | mg/L |
| Clar+Ion [®] A501.5P | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion [®] A502.5P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion [®] A520P | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pac [®] 1000-10A | Coagulation & Flocculation | 278 | mg/L |

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| | | | |
|-------------------------------|----------------------------|-----|------|
| Gen+Pac ³ 1000 10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ⁴ 1000-5A | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac ⁴ 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ⁵ 1270-15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pac ⁵ 1270-15B | Coagulation & Flocculation | 113 | mg/L |
| Gen+Pac ⁶ 1210 35A | Coagulation & Flocculation | 71 | mg/L |
| Gen+Pac ⁶ 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac ⁶ 1270-5A | Coagulation & Flocculation | 480 | mg/L |
| Gen+Pac ⁶ 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac ⁶ 2270-5C | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac ⁶ 670-5A | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ⁶ 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac ⁶ 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pas ⁷ 10A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ⁷ 10B | Coagulation & Flocculation | 166 | mg/L |
| Gen+Pas ⁷ 15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ⁷ 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas ⁷ 20A | Coagulation & Flocculation | 125 | mg/L |
| Gen+Pas ⁷ 208 | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas ⁷ 5A | Coagulation & Flocculation | 158 | mg/L |
| Gen+Pas ⁷ 58 | Coagulation & Flocculation | 157 | mg/L |
| Hyper+Ion ⁸ 1050A | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion ⁸ 11027 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ⁸ 1527 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ⁸ 1530 | Coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion ⁸ 2050A | Coagulation & Flocculation | 500 | mg/L |
| Hyper+Ion ⁸ 21027 | Coagulation & Flocculation | 278 | mg/L |
| Hyper+Ion ⁸ 2527 | Coagulation & Flocculation | 263 | mg/L |
| Hyper+Ion ⁸ 2530 | Coagulation & Flocculation | 480 | mg/L |
| Hyper+Ion ⁸ 2550 | Coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion ⁸ 3830 | Coagulation & Flocculation | 71 | mg/L |
| Hyper+Ion ⁸ 4530 | Coagulation & Flocculation | 51 | mg/L |
| Hyper+Ion ⁸ 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion ⁸ 6515 | Coagulation & Flocculation | 167 | mg/L |
| Hyper+Ion ⁸ A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ⁸ A510P | Coagulation & Flocculation | 200 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

Plant At: DENVER, CO

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |

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| | | | |
|---------------------------------|----------------------------|-----|------|
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5-10.0% | Coagulation & Flocculation | 150 | mg/L |
| Polymer Blends [AL] [PY] | | | |
| Hyper+Ion 7510 | Coagulation & Flocculation | 254 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose

Plant At: CLAYMONT, DE

| Chemical/ Trade Designation | Function | | Max Use |
|-------------------------------------|--|----|---------|
| Sodium Metabisulfite | | | |
| Sodium Metabisulfite ⁽¹⁾ | Dechlorination | 15 | mg/L |
| Sulfuric Acid | | | |
| Sulfuric Acid (All Grades) | Corrosion & Scale Control pH Adjustment | 50 | mg/L |

(1) This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L)

Plant At: JACKSONVILLE, FL

| Chemical/ Trade Designation | Function | | Max Use |
|----------------------------------|----------------------------|-----|---------|
| Aluminum Sulfate ^[AL] | | | |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: PORT ST. JOE, FL

| Chemical/ Trade Designation | Function | | Max Use |
|----------------------------------|----------------------------|-----|---------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

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Plant At: TAMPA, FL

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum sulfate | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L

Plant At: AUGUSTA, GA

| Chemical/ Trade Designation | Function | Max Use |
|---------------------------------|--|----------|
| Aluminum Sulfate [AL] | | |
| Alum" | Coagulation & Flocculation | 150 mg/L |
| Aluminum sulfate Liquid [1] | Coagulation & Flocculation | 150 mg/L |
| Polymer Blends [AL] [PD] [PY] | | |
| Clar+Ion ³ A305P | Coagulation & Flocculation | 153 mg/L |
| Clar+Ion ³ A402.3P44 | Coagulation & Flocculation | 190 mg/L |
| Clar+Ion ³ A403P | Coagulation & Flocculation | 320 mg/L |
| Clar+Ion ³ A502 5P54 | Coagulation & Flocculation | 190 mg/L |
| Clar+Ion ³ P979 | Coagulation & Flocculation | 143 mg/L |
| Sulfuric Acid | | |
| sulfuric Acid (All Grades) | Corrosion & Scale Control pH Adjustment | 50 mg/L |

[1] Max use based on dry alum

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: CEDAR SPRINGS, GA

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Low Iron Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: EAST POINT, GA

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| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 41 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] a3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A20 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized @ 5-5.0% | Coagulation & Flocculation | 150 | mg/L |
| Al+Clear A7 | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health **effects** data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: MACON, GA

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the **level** of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: SAVANNAH, GA

| Chemical/ Trade Designation | Function | Max Use | |
|----------------------------------|----------------------------|---------|------|
| Aluminum Sulfate ^{IALI} | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A.5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1.5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] a2 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A2.5 | Coagulation & Flocculation | 150 | mg/L |

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| | | | |
|---------------------------------|----------------------------|-----|------|
| Clar+Ion ³ A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A4 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A5 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5 - 5.0% | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: EAST ST. LOUIS, IL

| Chemical/ Trade Designation | Function | | Max Use |
|---|----------------------------|-----|---------|
| Aluminum Chlorohydrate [AL] | | | |
| Gen+Pac ³ 2370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ⁵ 1090 | Coagulation & Flocculation | 250 | mg/L |
| PAC ⁹ 2370 | Coagulation & Flocculation | 250 | mg/L |
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A7 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ A20 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion ³ 700 | Coagulation & Flocculation | 232 | mg/L |
| Gen+Pas ³ 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 707 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ³ 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5 - 5.0% | Coagulation & Flocculation | 150 | mg/L |
| Miscellaneous Chemical Products [AL] | | | |
| Gen+Pac ³ 1050L | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050M | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Gen+Pac ³ 1000 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1010 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1030 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050S | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 100 | Coagulation & Flocculation | 250 | mg/L |

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| | | | |
|-------------------------------------|----------------------------|-----|------|
| Gen+Pac ^f 1230 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ^f 1270 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ^f 2173 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ^f 2170 | Coagulation & flocculation | 250 | mg/L |
| Gen+Pac ^f 4370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1000 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1020 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1023 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1026 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1030 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1033 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1090 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 2021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 4020 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 4090 | Coagulation & Flocculation | 250 | mg/L |
| PAC ^f 1000 | Coagulation & Flocculation | 250 | mg/L |
| PAC ^f 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC ^f 2370 | Coagulation & Flocculation | 250 | mg/L |
| PAC ^f 4370 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f 1750 | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blends ^{[AL] [PY]} | | | |
| Clar+Ion ^f 515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion ^f A405P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion ^f A410P | Coagulation & flocculation | 167 | mg/L |
| Clar+Ion ^f A415P | Coagulation & Flocculation | 161 | mg/L |
| Clar+Ion ^f A420P | Coagulation & Flocculation | 125 | mg/L |
| Clar+Ion ^f A501.5P | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion ^f A502.5P | coagulation & Flocculation | 152 | mg/L |
| Clar+Ion ^f A505P | Coagulation & flocculation | 157 | mg/L |
| Clar+Ion ^f A510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion ^f A515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion ^f A520P | Coagulation & Flocculation | 100 | mg/L |
| Clar+Ion ^f 4050 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion ^f 4055 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion ^f 4100 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion ^f 5057 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac ^f 670-5A | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ^f 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac ^f 670-5BS | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac ^f 670-17B | Coagulation & flocculation | 72 | mg/L |
| Gen+Pac ^f 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pac ^f 870-5BS | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac ^f 1000-5A | Coagulation & Flocculation | 250 | mg/L |

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| | | | |
|--|----------------------------|-----|------|
| Gen+Pac ¹ 1000-5A45 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ² 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ⁴ 1000-10A | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ⁷ 1000-10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac ³ 1050S-1A45 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050S-4A45 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050S-15A45 | Coagulation & Flocculation | 125 | mg/L |
| Gen+Pac ⁶ 1050S-1B | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 1050S-35B | Coagulation & Flocculation | 23 | mg/L |
| Gen+Pac ³ 1270-5A | Coagulation & Flocculation | 480 | mg/L |
| Gen+Pac ³ 1270-5A45 | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ³ 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac ³ 1270-10B | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac ³ 1270-15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pac ³ 1270-15A45 | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pac ³ 1270-15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pac ³ 1270-20A | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ³ 1270-35A | Coagulation & Flocculation | 71 | mg/L |
| Gen+Pac ³ 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac ³ 1270-50B | Coagulation & Flocculation | 36 | mg/L |
| Gen+Pac ⁴ 1270-50B50 | Coagulation & Flocculation | 36 | mg/L |
| Gen+Pac ³ 2183-10A | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 2270-5C ^(PD) | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac ³ 2370-8A45 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 2370-8B | Coagulation & Flocculation | 160 | mg/L |
| Gen+Pac ³ 4370-8A45 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac ³ 4370-35A45 | Coagulation & Flocculation | 500 | mg/L |
| Gen+Pac ³ 4670-30B50 | Coagulation & Flocculation | 36 | mg/L |
| Gen+Pas ⁵ 1.5A | Coagulation & Flocculation | 152 | mg/L |
| Gen+Pas ⁵ 1.5B | Coagulation & Flocculation | 152 | mg/L |
| Gen+Pas ⁵ 2.5A | Coagulation & Flocculation | 154 | mg/L |
| Gen+Pas ⁵ 2.5B | Coagulation & Flocculation | 153 | mg/L |
| Gen+Pas ⁵ 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas ⁵ 5B | Coagulation & flocculation | 157 | mg/L |
| Gen+Pas ⁵ 10A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ⁵ 10B | Coagulation & Flocculation | 166 | mg/L |
| Gen+Pas ⁵ 15A | Coagulation & Flocculation | 167 | mg/L |
| Gen+Pas ⁶ 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas ⁵ 20A | Coagulation & Flocculation | 125 | mg/L |
| Gen+Pas ⁵ 20B | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas ⁵ 55A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas ⁵ 75B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ⁵ 105A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas ⁵ 1010A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas ⁵ 1010B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas ⁵ TA-800-1 | Coagulation & Flocculation | 151 | mg/L |

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| | | | |
|--------------------------------|----------------------------|-----|------|
| Hyper+Ion ^f A405P | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f A410P | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^f A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^f A510P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^f 1050A | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion ^f 1527 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^f 1530 | Coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion ^g 1550 | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion ^g 2050A | Coagulation & Flocculation | 500 | mg/L |
| Hyper+Ion ^g 2527 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 2530 | Coagulation & Flocculation | 480 | mg/L |
| Hyper+Ion ^g 2550 | Coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion ^g 3530 | Coagulation & Flocculation | 71 | mg/L |
| Hyper+Ion ^g 4530 | Coagulation & Flocculation | 57 | mg/L |
| Hyper+Ion ^g 4550 | Coagulation & Flocculation | 35 | mg/L |
| Hyper+Ion ^g 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion ^g 6515 | Coagulation & Flocculation | 167 | mg/L |
| Hyper+Ion ^g 6515A | Coagulation & Flocculation | 167 | mg/L |
| Hyper+Ion ^g 7502A | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^g 7505 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^g 7510 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^g 8502 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 85028 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 8502C | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 8505 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 8530m3 | Coagulation & Flocculation | 40 | mg/L |
| Hyper+Ion ^g 10530 | Coagulation & Flocculation | 500 | mg/L |
| Hyper+Ion ^g 11027 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion ^g 21027 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion ^g 82530m3 | Coagulation & Flocculation | 80 | mg/L |
| Clar+Ion ^g S100 | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose

Plant At: MARRERO, LA

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum | Coagulation & Flocculation | 150 mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum

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in the finished drinking water should not exceed 2 mg/L

Plant At: RIVER ROUGE, MI

| Chemical/ Trade Designation | Function | Max Use | |
|--|----------------------------|---------|------|
| Aluminum Sulfate ^[AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Alum LC | coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1 | coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A20 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5-5.0% ^{[AL] [PD] [PY]} | Coagulation & Flocculation | 150 | mg/L |
| Polymer Blends | | | |
| Clar+Ion [®] 12425 | Coagulation & Flocculation | 156 | mg/L |
| Clar+Ion [®] 19437 | Coagulation & Flocculation | 159 | mg/L |
| Clar+Ion [®] 25450 | Coagulation & Flocculation | 162 | mg/L |
| Clar+Ion [®] 38475 | Coagulation & Flocculation | 169 | mg/L |
| Clar+Ion [®] 38475A | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 38475B | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 38475C | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 38475D | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A405P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] A415P | Coagulation & Flocculation | 86 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 65 | mg/L |
| Clar+Ion [®] A501.5P | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion [®] A502.5P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion [®] A520P | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas [®] 1.5B | Coagulation & Flocculation | 153 | mg/L |

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| | | | |
|-------------------|----------------------------|-----|------|
| Gen+Pas® 10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas® 10B | Coagulation & Flocculation | 166 | mg/L |
| Gen+Pas® 15A | Coagulation & Flocculation | 86 | mg/L |
| Gen+Pas® 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas® 2.58 | Coagulation & Flocculation | 152 | mg/L |
| Gen+Pas® 20A | Coagulation & Flocculation | 65 | mg/L |
| Gen+Pas® 20B | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas® 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas® 5B | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas® TA-800-1 | Coagulation & Flocculation | 151 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: NEWARK, NJ

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|--|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate, Liquid | Coagulation & Flocculation | 150 | mg/L |
| Sulfuric Acid | | | |
| Sulfuric Acid (All Grades) | Corrosion & scale Control pH Adjustment | 50 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: CLEVELAND, OH

| Chemical/ Trade Designation- | Function | Max Use | |
|------------------------------------|----------------------------|---------|------|
| Aluminum Chlorohydrate IAL1 | | | |
| Gen+Pac® 2370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion® 1090 | Coagulation & Flocculation | 250 | mg/L |
| PAC® 2370 | Coagulation & Flocculation | 250 | mg/L |
| Aluminum Sulfate IAL1 | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® AL5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A20 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A3 | Coagulation & Flocculation | 150 | mg/L |

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International

| | | | |
|---|----------------------------|-----|------|
| Clar+Ion [®] AS | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation h Flocculation | 150 | mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 107 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 715 | Coagulation h Flocculation | 150 | mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 | mg/L |
| Lipid Alum Acidired 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Gen+Pac [®] 1000 | Coagulation h Flocculation | 250 | mg/L |
| Gen+Pac [®] 1010 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1050S | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1070 | Coagulation k Flocculation | 250 | mg/L |
| Gen+Pac [®] 1230 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac [®] 1270 | Coagulation k Flocculation | 250 | mg/L |
| Gen+Pac [®] 2370 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1020 | Coagulation k Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1025 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1030 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 25@ | mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1090 | Coagulation h Flocculation | 250 | mg/L |
| Hyper+Ion [®] 2021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 4020 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC'' 2310 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride [AL] [PD] [PY] | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blende | | | |
| Clar+Ion [®] 12425 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 15430 | Coagulation h Flocculation | 150 | mg/L |
| Clar+Ion [®] 19437 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 25450 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 38475 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] 4050 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 4055 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 4100 | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] 50400 | Coagulation h Flocculation | 150 | mg/L |
| Clar+Ion [®] 5057 | Coagulation & Flocculation | 150 | mg/L |

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| | | | |
|-------------------------------------|----------------------------|------------|------|
| Clar+Ion [®] 505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] 5100 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion[®] 510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] 515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion [®] A405P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion[®] A415P | Coagulation & Flocculation | 86 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 65 | mg/L |
| Clar+Ion [®] A501.5P | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion [®] A502.5P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 125 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion [®] A520P | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pac [®] 1000-10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac [®] 1000-5A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac [®] 1270-15A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1270-15B | Coagulation & Flocculation | 173 | mg/L |
| Gen+Pac [®] 1270-35A | Coagulation & Flocculation | 37 | mg/L |
| Gen+Pac[®] 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac [®] 1270-5A | Coagulation & Flocculation | 260 | mg/L |
| Gen+Pac [®] 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac [®] 2270-5C | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pac [®] 670-5A | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac [®] 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac [®] 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pas[®] 1.58 | Coagulation & Flocculation | 152 | mg/L |
| Gen+Pas [®] 1010A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [®] 1010B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 105A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [®] 10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [®] 108 | Coagulation & Flocculation | 125 | mg/L |
| Gen+Pas [®] 15A | Coagulation & Flocculation | 86 | mg/L |
| Gen+Pas [®] 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas [®] 2.58 | Coagulation & Flocculation | 153 | mg/L |
| Gen+Pas[®] 20A | Coagulation & Flocculation | 65 | mg/L |
| Gen+Pas [®] 20B | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas [®] 256 | Coagulation & Flocculation | 73 | mg/L |
| Gen+Pas [®] 55A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas [®] 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 58 | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 750 | Coagulation & flocculation | 150 | mg/L |
| Gen+Pas [®] TA-800-1 | Coagulation & Flocculation | 151 | mg/L |
| Hyper+Ion[®] 1050A | Coagulation & Flocculation | 400 | mg/L |

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| | | | |
|------------------------------|----------------------------|-----|------|
| Hyper+Ion [®] 11027 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] 1527 | coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] 1530 | Coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion [®] 2050A | Coagulation & Flocculation | 150 | mg/L |
| Hyper+Ion [®] 21021 | coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] 2527 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] 2530 | Coagulation & Flocculation | 260 | mg/L |
| Hyper+Ion [®] 2550 | coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion [®] 3530 | Coagulation & Flocculation | 37 | mg/L |
| Hyper+Ion [®] 4530 | Coagulation & Flocculation | 57 | mg/L |
| Hyper+Ion [®] 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion [®] 6515 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] A405P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] A510P | Coagulation & Flocculation | 200 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR. 141.111 requirements for percent monomer and dose

Plant At: COLUMBUS, OH

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------------|--|----------|
| Sodium Carbonate Soda Ash - Dense | Corrosion & Scale Control pH Adjustment | 100 mg/L |

Plant At: MIDDLETOWN, OH

| Chemical/ Trade Designation | Function | Max Use |
|--------------------------------|----------------------------|----------|
| Aluminum Sulfate [AL] | | |
| Alum | Coagulation & Flocculation | 150 mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A20 | coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A5 | coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 mg/L |

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| | | | |
|-------------------------------|----------------------------|-----|------|
| Gen+Pas® 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 115 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |
| Polymer Blends [AL] IPDI [PY] | | | |
| Clar+Ion® 38475 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® 5055 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® 5057 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® 5100 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A405P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion® A410P | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion® A415P | Coagulation & Flocculation | 86 | mg/L |
| Clar+Ion® A420P | Coagulation & Flocculation | 65 | mg/L |
| Gen+Pas® 1010B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 105A | Coagulation & Flocculation | 152 | mg/L |
| Gen+Pas® 10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas® 15A | Coagulation & Flocculation | 86 | mg/L |
| Gen+Pas® 2.5A | Coagulation & Flocculation | 154 | mg/L |
| Gen+Pas® 20A | Coagulation & Flocculation | 65 | mg/L |
| Gen+Pas® 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas® 75B | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® TA-W00-1 | Coagulation & Flocculation | 151 | mg/L |

IALI *Based* on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is *based* on a maximum carryover of 50 ug/L DADMAC polymer

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: JOHNSONBURG, PA

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|----------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Gen+Pac® 1000 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1010 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1030 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1050 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1050S | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1070 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1230 | Coagulation & Flocculation | 250 | mg/L |
| Gen+Pac® 1270 | Coagulation & Flocculation | 250 | mg/L |

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| | | | |
|------------------------------------|-----------------------------------|-----|------|
| Gen+Pac [®] 2370 | Coagulation h Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1020 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1021 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1026 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1030 | Coagulation h Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1090 | coagulation & Flocculation | 250 | mg/L |
| Hyper+Ion [®] 2021 | coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1000 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 2370 | Coagulation h Flocculation | 250 | mg/L |
| Polyaluminum Chloride | Coagulation & Flocculation | 250 | mg/L |
| Aluminum Chlorohydrate [AL] | | | |
| Gen+Pac [®] 2370 | Coagulation h Flocculation | 250 | mg/L |
| Hyper+Ion [®] 1090 | Coagulation & Flocculation | 250 | mg/L |
| PAC [®] 2370 | Coagulation & Flocculation | 250 | mg/L |

[AL] Based on an evaluation of **health** effects data, the level of **aluminum** in the finished drinking water should not exceed 2 mg/L.

Plant At: CATAWBA, SC

| Chemical/ Trade Designation | Function | Max use | |
|--------------------------------|-----------------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation h Flocculation | 150 | mg/L |
| Aluminum Sulfate, Liquid | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the **level** of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: SPRINGFIELD, TN

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|-----------------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum [1] | Coagulation h Flocculation | 150 | mg/L |
| Aluminum Sulfate Liquid'' | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A20 | Coagulation h Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] h5 | Coagulation h Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 | mg/L |

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| | | | |
|--------------------------------------|----------------------------|-----|------|
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 107 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas [®] 720 | Coagulation & flocculation | 150 | mg/L |
| Liquid film Acidized 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |
| Polyaluminum Chloride [AL] | | | |
| Hyper+Ion [®] 1750 | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blends [AL] [PD] [PY] | | | |
| Clar+Ion [®] 14S | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A402.3P44 | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A501.2P2.54 | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A501.2P54 | coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A501.8P | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A502.5P54 | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A502.7P | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A502.7P54 | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A503P | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A504.8P | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 190 | mg/L |
| Clar+Ion [®] A506P | Coagulation & flocculation | 190 | mg/L |
| Clar+Ion [®] A54 | Coagulation & Flocculation | 190 | mg/L |
| Hyper+Ion [®] 25.6 | Coagulation & Flocculation | 190 | mg/L |
| Hyper+Ion [®] 453 | Coagulation & Flocculation | 190 | mg/L |
| Hyper+Ion [®] 9505 | Coagulation & Flocculation | 250 | mg/L |

111 Max use based on dry alum

[AL] Based on an evaluation of health effects data, the **level** of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 µg/L DMMAC polymer.

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: COVINGTON, VA

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|----------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International

| | | | |
|-------------------------------|----------------------------|-----|------|
| Clar+Ion® A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A20 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 707 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: HOPEWELL, VA

| Chemical/ Trade Designation | Function | | Max Use |
|--------------------------------|----------------------------|-----|---------|
| Aluminum Sulfate [AL] | | | |
| Alum | | | |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A7 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A15 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion® A20 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 701 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 703 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 705 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 707 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 710 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 715 | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pas® 720 | Coagulation & Flocculation | 150 | mg/L |
| Liquid Alum Acidized 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: VANCOUVER, WA

| Chemical/ Trade Designation | Function | | Max Use |
|--------------------------------|----------------------------|-----|---------|
| Aluminum Sulfate [AL] | | | |
| Alum | | | |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| | Coagulation & Flocculation | 150 | mg/L |

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[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Plant At: MENASHA, WI

| Chemical/ Trade Designation | Function | Max Use |
|--|-----------------------------------|----------|
| Aluminum Sulfate ^[AL] | | |
| Alum | Coagulation <i>h</i> Flocculation | 150 mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A1 | Coagulation <i>h</i> Flocculation | 150 mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A7 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 mg/L |
| Clar+Ion [®] A15 | Coagulation <i>h</i> Flocculation | 150 mg/L |
| Clar+Ion [®] AZO | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 701 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 703 | Coagulation & flocculation | 150 mg/L |
| Gen+Pas [®] 705 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 707 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 710 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 715 | Coagulation & Flocculation | 150 mg/L |
| Gen+Pas [®] 720 | Coagulation & Flocculation | 150 mg/L |
| Liquid Alum Acidized 0.5-5.0% ^[AL] | Coagulation & Flocculation | 150 mg/L |
| Polyaluminum Chloride | | |
| Gen+Pac [®] 1000 | Coagulation & flocculation | 250 mg/L |
| Gen+Pac [®] 1010 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1030 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1050 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1050s | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1070 | Coagulation <i>h</i> Flocculation | 250 mg/L |
| Gen+Pac [®] 1230 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 1270 | Coagulation & Flocculation | 250 mg/L |
| Gen+Pac [®] 2370 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1000 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1020 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1021 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1023 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1026 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1030 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1033 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1050 | Coagulation & Flocculation | 250 mg/L |
| Hyper+Ion [®] 1090 | Coagulation <i>h</i> Flocculation | 250 mg/L |
| Hyper+Ion [®] 2021 | Coagulation & Flocculation | 250 mg/L |

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| | | | |
|-------------------------------------|----------------------------|-----|------|
| PAC [®] 100C | Coagulation & Flocculation | 250 | mg/L |
| PAC" 1050 | Coagulation & Flocculation | 250 | mg/L |
| PAC" 2310 | Coagulation & Flocculation | 250 | mg/L |
| Polyaluminum Chloride | Coagulation & Flocculation | 250 | mg/L |
| Polymer Blends | | | |
| | [AL] [PD] [PY] | | |
| Clar+Ion[®] A405P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Clar+Ion [®] A415P | Coagulation & Flocculation | 86 | mg/L |
| Clar+Ion [®] A420P | Coagulation & Flocculation | 55 | mg/L |
| Clar+Ion[®] A501.51 | Coagulation & Flocculation | 153 | mg/L |
| Clar+Ion [®] A502.5P | Coagulation & Flocculation | 152 | mg/L |
| Clar+Ion [®] A505P | Coagulation & Flocculation | 157 | mg/L |
| Clar+Ion [®] A510P | Coagulation & Flocculation | 166 | mg/L |
| Clar+Ion [®] A515P | Coagulation & Flocculation | 133 | mg/L |
| Clar+Ion[®] A520P | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pac [®] 670-5A | Coagulation & Flocculation | 150 | mg/L |
| Gen+Pac [®] 670-5B | Coagulation & Flocculation | 400 | mg/L |
| Gen+Pac [®] 870-5AS | Coagulation & Flocculation | 122 | mg/L |
| Gen+Pac [®] 1000-5A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-5B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac [®] 1000-10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac [®] 1000-10B | Coagulation & Flocculation | 200 | mg/L |
| Gen+Pac[®] 1270-5A | Coagulation & Flocculation | 260 | mg/L |
| Gen+Pac [®] 1270-5B | Coagulation & Flocculation | 333 | mg/L |
| Gen+Pac [®] 1270-15A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pac[®] 1270-15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pac[®] 1270-35A | Coagulation & Flocculation | 37 | mg/L |
| Gen+Pac [®] 1270-35B | Coagulation & Flocculation | 57 | mg/L |
| Gen+Pac[®] 2270-5C | Coagulation & Flocculation | 263 | mg/L |
| Gen+Pas[®] 5A | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 5B | Coagulation & Flocculation | 157 | mg/L |
| Gen+Pas [®] 10A | Coagulation & Flocculation | 130 | mg/L |
| Gen+Pas[®] 10B | Coagulation & Flocculation | 166 | mg/L |
| Gen+Pas [®] 15A | Coagulation & Flocculation | 5 | mg/L |
| Gen+Pas [®] 15B | Coagulation & Flocculation | 133 | mg/L |
| Gen+Pas [®] 20A | Coagulation & Flocculation | 65 | mg/L |
| Gen+Pas [®] 206 | Coagulation & Flocculation | 100 | mg/L |
| Gen+Pas [®] TA-200-1 | Coagulation & Flocculation | 151 | mg/L |
| Hyper+Ion [®] A405P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] A410P | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] A505P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] A510P | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] 1050A | Coagulation & Flocculation | 400 | mg/L |
| Hyper+Ion[®] 1527 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] 1530 | Coagulation & Flocculation | 333 | mg/L |
| Hyper+Ion[®] 2050A | Coagulation & Flocculation | 150 | mg/L |

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

| | | | |
|------------------------------|-----------------------------------|-----|------|
| Hyper+Ion [®] 2527 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] 2530 | Coagulation & Flocculation | 260 | mg/L |
| Hyper+Ion [®] 2550 | Coagulation & Flocculation | 122 | mg/L |
| Hyper+Ion [®] 3530 | Coagulation <i>h</i> Flocculation | 37 | mg/L |
| Hyper+Ion [®] 4530 | Coagulation & Flocculation | 51 | mg/L |
| Hyper+Ion [®] 5515 | Coagulation & Flocculation | 133 | mg/L |
| Hyper+Ion [®] 6515 | Coagulation & Flocculation | 130 | mg/L |
| Hyper+Ion [®] 11027 | Coagulation & Flocculation | 200 | mg/L |
| Hyper+Ion [®] 21027 | Coagulation & Flocculation | 130 | mg/L |

[AL] Based on an evaluation Of health effects data, the level of aluminum in the finished drinking water should not exceed 2 mg/L.

[PD] Certification is based on a maximum carryover of 50 ug/L DADMAC polymer

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Plant At: WISCONSIN RAPIDS. WI

| Chemical/ Trade Designation | Function | Max Use | |
|--------------------------------|-----------------------------------|---------|------|
| Aluminum Sulfate [AL] | | | |
| Alum | Coagulation & Flocculation | 150 | mg/L |
| Aluminum Sulfate | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A1 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A10 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A15 | Coagulation <i>h</i> Flocculation | 150 | mg/L |
| Clar+Ion [®] A20 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A3 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A5 | Coagulation & Flocculation | 150 | mg/L |
| Clar+Ion [®] A7 | Coagulation <i>h</i> Flocculation | 150 | mg/L |
| Liquid Alum Acidired 0.5-5.0% | Coagulation & Flocculation | 150 | mg/L |

[AL] Based on an evaluation of health effects data. the level of aluminum in the finished drinking water should not exceed 2 mg/L.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International

Material Safety Data Sheet



Liquid Alum

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Liquid Alum

OTHER/GENERIC NAMES: Aluminum Sulfate, aqueous solution

PRODUCT USE: Water treatment. Various industrial uses.

MANUFACTURER: General Chemical Corporation
90 East Halsey Road
Parsippany, NJ 07054

FOR MORE INFORMATION CALL: 973-515-1840
(Monday-Friday, 9:00am-4:30pm)

IN CASE OF EMERGENCY CALL: 800-631-8050
(24 Hours/Day, 7 Days/Week)

2. POSITION/INFORMATION ON INGREDIENTS

| INGREDIENT NAME | CAS NUMBER | WEIGHT % |
|------------------|---------------------------|----------|
| Aluminum sulfate | 10043-01-3 (anhydrous) | 48.5 |
| Water | 7732-18-5 | Balance |

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

OSHA Hazard Communication Standard: This product is considered hazardous under *the* OSHA Hazard Communication Standard

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear, odorless light green or amber liquid. Can irritate the skin and eyes. Not flammable, but may release toxic vapors if decomposed in a fire.

POTENTIAL HEALTH HAZARDS

SKIN: May cause skin irritation

EYES: May strongly irritate or burn the eyes.

INHALATION: Product mists may cause irritation to the respiratory tract.

INGESTION: May irritate the gastrointestinal tract. Concentrated solutions may cause burns to the digestive tract.

DELAYED EFFECTS: None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below,

| INGREDIENT NAME | NTP STATUS | IARC STATUS | OSHA LIST |
|---------------------------------------|------------|-------------|-----------|
| No ingredients listed in this section | | | |



MATERIAL SAFETY DATA SHEET
Liauid Alum

4. FIRST AID MEASURES

SKIN: Flush with plenty of water, removing contaminated clothing. If irritation develops, get medical attention.

EYES: Immediately flush with water, continuing for at least 15 minutes. If irritation persists, get medical attention

INHALATION: Promptly remove to fresh air

INGESTION: If conscious, immediately give large quantity of water or milk. If not already vomiting, induce vomiting by touching finger to back of throat. Get immediate medical assistance.

ADVICE TO PHYSICIAN: Treat symptomatically

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

| | |
|---|----------------|
| FLASH POINT: | Not flammable |
| FLASH POINT METHOD: | Not applicable |
| AUTOIGNITION TEMPERATURE: | Not applicable |
| UPPER FLAME LIMIT (volume % in air): | Not applicable |
| LOWER FLAME LIMIT (volume % in air): | Not applicable |
| FLAME PROPAGATION RATE (solids): | Not applicable |
| OSHA FLAMMABILITY CLASS: | Not applicable |

EXTINGUISHING MEDIA:

Product is not flammable. Use any extinguishing agent suitable for surrounding fire

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Use self-contained breathing apparatus. Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (See section 8 for recommended personal protective equipment.)

Dilute small spills or leaks cautiously with plenty of water. Neutralize any further residue with alkali such as soda ash, lime or limestone. Adequate ventilation is required if soda ash or limestone is used, because of the consequent release of carbon dioxide gas. Large spills: dike up with soda ash and neutralize as above. Collect liquid and/or residue and dispose of in accordance with applicable regulations.

Spills and releases may have to be reported to Federal and/or **local** authorities. See Section 15 regarding reporting requirements.



MATERIAL SAFETY DATA SHEET
Liquid Alum

7. HANDLING AND STORAGE

NORMAL HANDLING: (See section 8 for recommended personal protective equipment.)
Avoid contact with skin, eyes and clothing. Do not breathe product mists.

STORAGE RECOMMENDATIONS:
Store in a cool area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Use local exhaust if misting is anticipated

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: Wear impervious (e.g. rubber) gloves and apron and full work clothing including long sleeved shirts, trousers and boots. Full impervious clothing is recommended if prolonged product contact is anticipated.

EYE PROTECTION: Wear chemical safety goggles. Do not wear contact lenses.

RESPIRATORY PROTECTION: A NIOSH approved mist respirator should be worn in areas where product mists are present.

ADDITIONAL RECOMMENDATIONS: The presence of an eyewash and safety shower is recommended.

EXPOSURE GUIDELINES

| <u>INGREDIENT NAME</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER LIMIT</u> |
|--------------------------------|---------------------|---------------------|--------------------|
| Aluminum sulfate (as Aluminum) | 2 mg/m ³ | 2 mg/m ³ | None |

¹ = Limit established by General Chemical Corporation.

² = Workplace Environmental Exposure Level (AIHA).

³ = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light green or amber liquid
PHYSICAL STATE: Liquid
MOLECULAR WEIGHT: -594 for Al₂(SO₄)₃·14H₂O
CHEMICAL FORMULA: 48.5% Al₂(SO₄)₃·14H₂O in water
ODOR: Odorless
SPECIFIC GRAVITY (water = 1.0): 1.335

MATERIAL SAFETY DATA SHEET

Liquid Alum

| | | |
|--|--------------------|-------------------------------------|
| SOLUBILITY IN WATER (weight %): | 100 | |
| pH: | -3.5 (1% solution) | |
| BOILING POINT: | 101°C | |
| MELTING POINT: | -16°C | |
| VAPOR PRESSURE: | Not applicable | |
| VAPOR DENSITY (air = 1.0): | Not applicable | |
| EVAPORATION RATE: | Not determined | COMPARED TO: Not applicable. |
| % VOLATILES: | -50 | |
| FLASH POINT: | Not flammable | |

(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Normally stable. If evaporated to dryness, residue should not be exposed to elevated temperatures (above 760°C), as this will yield toxic and corrosive gases.

INCOMPATIBILITIES:

Alkalis and water reactive materials such as oleum: causes exothermic reactions

HAZARDOUS DECOMPOSITION PRODUCTS:

At elevated temperatures, sulfur oxides may be formed. These are toxic and corrosive and are oxidizers. Sulfur trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.

HAZARDOUS POLYMERIZATION:

Will not occur

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Aluminum sulfate:
LD₅₀ (oral, mouse): 6207 mg/kg
LD₅₀ (oral, rat): 1930 mg/kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

Data not available-

OTHER DATA:

None

12. ECOLOGICAL INFORMATION

Aluminum sulfate:
14 ppm/36 hr/fundulus/fatal/fresh water.
240 ppm/48 hr/mosquito fish/TL_m/water type not specified



MATERIAL SAFETY DATA SHEET

Liquid Alum

TL Mosquito fish, 235 ppm, 96 hours
LC₅₀ Largemouth bass, 250 ppm, 96 hours

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Yes If yes, the RCRA ID number is: D002 (corrosive)

OTHER DISPOSAL CONSIDERATIONS:

If permitted by regulations, material may be neutralized with alkali

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the Characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: 8
US DOT ID NUMBER: UN3264
PROPER SHIPPING NAME: Corrosive liquid, acidic, inorganic, N.O.S. (contains aluminum sulfate)

For additional information on shipping regulations affecting this material, contact the information number found in Section 1

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: All ingredients listed on the TSCA Inventory

OTHER TSCA ISSUES: None

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

| <u>INGREDIENT NAME</u> | <u>SARA/CERCLA RQ (lb)</u> | <u>SARA EHS TPQ (lb)</u> |
|------------------------------|------------------------------|--------------------------|
| Aluminum sulfate (anhydrous) | 5000 (as is -18,000 lbs.) | None |

Spills or releases resulting in the **loss of** any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Immediate

SARA 313 TOXIC CHEMICALS:



MATERIAL SAFETY DATA SHEET

Liquid Alum

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

INGREDIENT NAME

No ingredients listed in this section

COMMENT

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes

INGREDIENT NAME

No ingredients listed in this section

WEIGHT % COMMENT

ADDITIONAL REGULATORY INFORMATION:

None listed

WHMIS CLASSIFICATION (CANADA):

E (corrosive based upon transportation classification) , D2B.

Classified in accordance with WHMIS Controlled Product regulations.

FOREIGN CHEMICAL CONTROL INVENTORY STATUS:

All ingredients listed on Canadian DSL.

16. OTHER INFORMATION

CURRENT ISSUE DATE: June, 2001

PREVIOUS ISSUE DATE: August, 1998

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

Updated to ANSI format.

OTHER INFORMATION: Not for Food or Drug Use, unless specifically marked and labeled as such.

FORMAL QUOTATION NO.: Q-040296

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: May 14, 2004

VENDOR NAME: La Roche Industries

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

GRAND TOTAL (ALL SECTIONS): \$ 37,100.00

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES NO

NOTE: Prices shall include firm delivered prices within the minimum/maximum quantity ranges F.O.B.. Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: _____

\$ _____ EA. X 2,228 dry tons = Total Cost \$ No bid

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: Anhydrous Ammonia

\$ 530.00 EA. X 70 tons = Total Cost \$ 37,100

Manufacturer Various

Minimax 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: _____

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ No bid

Min/max 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: _____

\$ _____ EA. X 40 tons = Total Cost \$ No bid

Manufacturer _____

Minimax 25 tons

SECTION 5, POLYMER

Specify product name: _____

\$ _____ EA. X 16,400 lbs = Total Cost \$ No bid

Manufacturer _____ **Calciquest 2154G or equal**

Midmax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: _____

\$ _____ EA. X 600 lbs = Total Cost \$ No bid

Manufacturer _____ **Calciquest 2244G or equal**

Minimax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: _____

\$ _____ EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ No bid

Manufacturer _____ **Ciba Specialty Chemicals Zetag 7848 or equal**

Min/max – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: _____

\$ _____ EA. X 70,000 lbs = Total Cost \$ No bid

Manufacturer _____ **Shannon SNC-RS2 or equal**

Min/max 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: _____

\$ _____ EA. X 40,000 lbs = Total Cost \$ No bid

Manufacturer _____

Min/max 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: _____

\$ _____ EA. X 5,491 tons = Total Cost \$ No bid

Manufacturer _____

Min/max 25 tons

SECTION SA, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: _____

\$ _____ EA. X 30 tons = Total Cost \$ No bid

Manufacturer _____

Min/max 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: _____

\$ _____ EA. X 3,000 gallons = Total Cost \$ No bid

Manufacturer _____

Min/max 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: _____

\$ _____ EA. X 90 dry tons = Total Cost \$ No bid

Manufacturer _____

Minimax 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: _____

\$ _____ EA. X 16,300 gallons = Total Cost \$ No bid

Manufacturer _____

Minimax 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: _____

\$ _____ EA. X 34 tons = Total Cost \$ No bid

Manufacturer _____

Min/max 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: _____

\$ _____ EA. X 120 tons = Total Cost \$ No bid

Manufacturer _____

Min/max 500 – 3,000 gallons

FORMAL QUOTATION NO.: Q-040296
TO BE STARTED WITHIN 3 CALENDAR DAYS AFTER RECEIPT
OF **AWARD** AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the county.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT () DED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME LaRoche Industries

BY (Printed): Larry M. Shiel

BY (Signature): Larry M. Shiel

TITLE: Director of Sales

FEDERAL ID # OR S.S.# 13-3341472

ADDRESS: 1100 Johnson Ferry Rd. NE
Suite 690 / Atlanta, GA 30342

PHONE NO.: (800) 226-4572

FAX NO.: (404) 851-0389

CELLULAR PHONE/PAGER NO.: (678) 428-4419

LEE COUNTY OCCUPATIONAL LICENSE NUMBER: 473-0005631

E-MAIL ADDRESS: egreen@larocheind.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either ~~Part~~ A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

NA

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

NA

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 4
2. Describe the types and amount of equipment you have available to service this contract.

La Roche has 4 drivers at its Davenport facility.

3. Describe the types and amount of material stock that you have available to service this contract.

LaRoche currently stores on site an
average of 250 tons of products

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes No

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

LaRoche has no outstanding
contractual issues with Lee
County.

LaRoche INDUSTRIES INC.

1100 JOHNSON FERRY ROAD, N.E.
ATLANTA, GA 30342-1708
(404) 851-0300

May 14, 2004

Lee County Division of Purchasing
1825 Hendry Street, 3rd Floor
Fort Myers, Florida 33901
Attn: Chevone Peterson

Ms. Peterson,

This is in response to your bid for anhydrous ammonia. Thank you for allowing LaRoche Industries to participate in your bidding process.

Attached you will find our Standard Contractor Safety Data, Material Safety Data Sheet and our NSF certification.

We **look** forward to working with you in the future. Please call me if you have any questions.

Sincerely,



Stephen Tullis
Sales Administrator

Cc: Ernest Green, Account Manager

LaRoche INDUSTRIES INC.
1100 JOHNSON FERRY ROAD N.E.
ATLANTA, GEORGIA 30342

STANDARD CONTRACTOR PRE-QUALIFICATION SAFETY DATA FORM

PURPOSE: The purpose of this form is to provide safety and general information about LaRoche Industries Inc. for use by current and potential customers in qualifying LaRoche Industries to perform ammonia deliveries and/or ammonia-related services at the customer's site. This standard form is used by LaRoche Industries in response to all customer requests for this information, in substitution for any form that may have been provided by the customer.

COMPANY NAME: LaRoche Industries Inc

ADDRESS: 1100 Johnson Ferry Road N.E
Atlanta, GA 30342

WEBSITE: www.larocheind.com

CONTACT PERSON: David Beech - Field Services Market Manager

PHONE: 404-851-0310

FAX: 404-851-0343

OTHER CONTACTS: Don Dayton - Director of Operations (404) 851-0321

Blaine Davis - Safety Coordinator (404) 851-0524

STANDARD INDUSTRIAL CLASSIFICATION: 5 1 6 9

EXPERIENCE MODIFICATION RATE (EMR)

| Effective Date | Rate |
|----------------|------|
| 7/1/2003 | 0.61 |
| 7/1/2002 | 0.61 |
| 7/1/2001 | 0.69 |

OSHA INJURY AND ILLNESS DATA

| OSHA 300A Log Information | 2002 | 2001 | 2000 |
|--|-------------|-------------|-------------|
| Number of Employee Hours Worked | 273,938 | 293,692 | 283,567 |
| Total Number of Deaths (Column G) | 0 | 0 | 0 |
| Total Number of Cases with Days Away From Work (Column H) | 0 | 0 | 0 |
| Number of Cases with Job Transfer or Restricted activity (Column I) | 3 | 0 | 1 |
| Total Number of Other Recordable Cases (Column J) | 2 | 0 | 3 |
| Total Number of Days Away From Work (Column L) | 0 | 0 | 0 |
| Total Number of Injuries and Illnesses (Column M) | 5 | 0 | 4 |
| Total OSHA Recordable Injury and Illness Rate (TRR) | 3.65 | 0.00 | 2.82 |
| Total Lost Workday Rate (TLWR) | 0.00 | 0.00 | 0.00 |

OSHA CITATIONS: LaRoche has received no OSHA citations in the past 3 years

WRITTEN SAFETY PROGRAM POLICIES

- Ammonia Respiratory Protection
- Chemical Bulk Storage Secondary Containment
- Company traffic policy
- Critical incident notification and reporting
- E H & S information line
- E H & S policy
- Ergonomics management policy
- Industrial hygiene policy
- Injury and illness policy (OSHA 300)
- Loss reporting procedure
- Medical waste policy
- Occupational exposure to bloodborne pathogens
- OSHA inspections
- Personal protective equipment
- Powered industrial trucks (forklifts)
- Product material safety data sheets policy
- Storage tank inspections
- Used oil management policy
- Disciplinary policy

LAROCHE SAFETY PROGRAM ELEMENTS

- Written Safety Program
- Documented Monthly Site Safety Meetings for all employees
- Comprehensive Safety Training Program for new hires
- Periodic Safety Audits
- Substance Abuse Policy
- Disciplinary Program
- Incident Investigation Program
- Personal Protective Equipment (PPE) Program
- Hazard Communication
- Electronic, Internet-based, Annual Training Program for all employees
- RMP/PSM Program at all facilities
- OSHA 40-Hour HAZWOPER training for all supervisors and most drivers

LAROCHE ANNUAL TRAINING PROGRAM SUBJECTS

Ammonia Safety & Properties

- Anhydrous Ammonia Awareness
- Aqua Ammonia Awareness
- Emergency Actions and First Aid for Anhydrous Ammonia
- Emergency Actions and First Aid for Aqua Ammonia
- Physical and Chemical Properties of Anhydrous Ammonia
- Physical and Chemical Properties of Aqua Ammonia

Emergency Response Training

- Emergency Action Plan Training

General Safety

- Bloodborne Pathogens in Industry
- Fire Safety
- Plant Entry and Security
- Respiratory Protection

Hazard Communication

- HAZCOM 1 - Labels
- HAZCOM 2 - Material Safety Data Sheets
- HAZCOM 3 - Physical Hazards
- HAZCOM 4 - Health Hazards
- HAZMAT Function Specific Training
- HAZMAT General Awareness
- HAZMAT General Safety Training
- HAZMAT Introduction

PSM / RMP Principles

- PSM/RMP Program Overview
- Operating Procedures
- Management of Change

Safe Work Practices

- Ammonia Line Breaking
- Confined Space Entry
- Hot Work, Welding, Burning
- Lockout/Tagout

SOP Training

- Standard Operating Procedures Training

ATTACHED DOCUMENTATION

- EMR verification e-mails
- OSHA 300A logs for 2002 & 2001 (2000 not available)
- Insurance Certificate (if requested)

LaRoche Industries Inc.

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

DISTRIBUTOR
 LaRoche Industries Inc.
 1100 Johnson Ferry Rd., NE
 Atlanta, GA 30342 USA

EMERGENCY TELEPHONE NUMBERS:
 Transportation (CHEMTREC): 1-800-424-9300
 Environmental/Health/Safety: 1-800-528-4963
 Customer Service (Toll Free): 1-877-474-4643

SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENTS

| CHEMICAL | FORMULA | % BY WEIGHT | | CAS | OSHA PEL | NIOSH REL / ACGIH TLV | | IDLH |
|----------|------------------|-------------|---------|-----------|--------------|-----------------------|---------------|--------|
| | | C-grade | P-grade | | | | | |
| Ammonia | NH ₃ | 99.5 | 99.995 | 7664-41-7 | 50 ppm (TWA) | 25 ppm (TWA) | 35 ppm (STEL) | 300ppm |
| Water | H ₂ O | 0.4 | 33 ppm | 7732-18-5 | None | None | None | |
| Oil | | 0.1 | 2 ppm | ----- | None | None | None | |

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW. 1. Colorless gas or compressed liquid with a pungent, suffocating odor 2. Liquid ammonia reacts violently with water. Vapor cloud is produced. 3. Avoid contact with liquid and vapor. 4. Stay upwind and use water spray to absorb vapor. 5. Not flammable under conditions likely to be encountered outdoors. 6. Stop discharge if possible.

POTENTIAL HEALTH EFFECT

ROUTES OF ENTRY Inhalation, Skin Contact, Eye Contact, Ingestion **TARGET ORGANS:** Eyes, skin and respiratory system.
EYE CONTACT: Exposure to liquid or high concentrations of vapor can cause painful, instant and possibly irreversible damage to tissue such as conjunctiva, cornea and lens. **SKIN CONTACT:** Prolonged contact with high concentrations can cause painful tissue damage, frostbite and serious chemical burns. **INHALATION:** Depending on exposure concentration and duration, effects can vary from none or only mild irritation, to obstruction of breathing from laryngeal and bronchial spasm, to edema and severe damage to mucous membranes of the respiratory tract with possible fatal results. Latent edema and residual reduction in pulmonary function may occur. **INGESTION:** Tissue damage, chemical burns, nausea and vomiting can occur. Ammonia is a gas under normal atmospheric conditions and ingestion is unlikely. **CARCINOGENICITY:** NTP? No IARC? No OSHA? No

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush with large amounts of water for at least 15 minutes then immediately seek medical aid.
SKIN CONTACT Immediately flush with large quantities of water for at least 15 minutes while removing clothing. If clothing has frozen to skin, thaw with water before removal. Seek immediate medical aid.
INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as needed. Seek immediate medical aid.
INGESTION: Do not induce vomiting. Have victim drink large quantities of water if conscious. Immediately seek medical aid. **Never give anything by mouth to an unconscious person.**

SECTION 5: FIRE FIGHTING MEASURES

FLASHPOINT (method used): Not Applicable **FLAMMABLE LIMITS:** 15-28% in air (for labeling purposes, not DOT flammable gas). **EXTINGUISHING MEDIA** With a source of ignition, ammonia will burn in the range of 15-28% in air. Stop flow of gas or liquid.

SPECIAL FIRE FIGHTING PROCEDURES: Move containers from fire zone if possible; if not, use water to cool fire-exposed containers. Use water spray to control vapors. Do not put water directly on liquid ammonia. Personnel must be equipped with appropriate protective clothing and respiratory protection.

NFPA HAZARD CLASSIFICATION: Health: 3 Flammability: 1 Reactivity: 0 (least-0 — 4-highest)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release of 100 lb. or more of ammonia must be reported immediately to the National Response Center at (800) 424-8802, the SERC and the LEPC. **SUGGESTED LOCAL ACTION:** Stop leak if feasible. Avoid breathing ammonia. Evacuate personnel not equipped with protective clothing and equipment. Use copious amounts of water spray or fog to absorb ammonia vapor. **DO NOT** put water on liquid ammonia. Contain run-off to prevent ammonia from entering a stream, lake, sewer, or ditch. Any release of this material, during the course of loading, transporting, unloading or temporary storage, must be reported to U.S. DOT as required by 49 CFR 171.15 and 171.16.

SECTION 7: HANDLING AND STORAGE

Refer to the ANSI K61.1 standard for storage and handling information. Protect containers from physical damage and temperatures exceeding 120°F. Use only approved storage systems. Zinc, copper, silver, cadmium, and their alloys must not be used in ammonia systems since they can be rapidly corroded by it. Avoid hydrostatic pressure, which can cause equipment rupture by correct proper filling and the use of hydrostatic pressure like valves etc if

SECTION 8: PERSONAL PROTECTIVE CONTROLS/PERSONNEL PRECAUTIONS

Respiratory protection approved by NIOSH / MSHA for ammonia must be used when exposure limits are exceeded. Whether chemical cartridge respirator or self-contained breathing apparatus is sufficient for effective respiratory protection depends on the type and magnitude of exposure.

SKIN PROTECTION: Rubber gloves and rubber or other types of approved protective clothing should be used to prevent skin contact. A face shield should be used for increased protection from contact with liquid or vapor.

EYE PROTECTION: Chemical splash goggles, approved for use with ammonia, must be worn to prevent eye contact with liquid or vapor. A face shield should be used for increased protection from contact with liquid.

VENTILATION: Local positive pressure and/or exhaust ventilation should be used to reduce vapor concentrations in confined spaces. Ammonia vapor, being lighter than air, can be expected to dissipate to the upper atmosphere. Ammonia concentrations may also be reduced by the use of an appropriate absorbent or reactant material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: -28.1°F

SPECIFIC GRAVITY: 0.62 @ 60°F (water=1)

SOLUBILITY IN WATER: High

VAPOR DENSITY: 0.60 @ 32°F (Air=1)

MELTING POINT: -107.9°F

pH: Approx. 11.6 for 1 N Sol'n. in water

PERCENT VOLATILE BY VOLUME: 100%

APPEARANCE: Colorless, pungent gas

VAPOR PRESSURE: 4802.9 mm Hg @ 60°F or 107.6 psia.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Material generally considered stable. However, heating above ambient temperatures causes the vapor pressure of ammonia to increase rapidly.

INCOMPATIBILITY (materials to avoid): Ammonia can react violently with strong acids. Under certain conditions, ammonia reacts with bromine, chlorine, fluorine or iodine to form compounds, which explode spontaneously. Reactions of ammonia with gold, silver or mercury to form explosive fulminate-like compounds has been reported.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen on heating to over 850°F. The decomposition temperature may be lowered to 575°F by contact with certain metals such as iron or nickel.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Ammonia is a strong alkali and readily damages all body tissues. Ammonia is not a cumulative metabolic poison.

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: 2.0-2.5 ppm/1-4 days/ goldfish and yellow perch/LC;

WATERFOWL TOXICITY: 120 ppm

60-80 ppm/3 days/crayfish/LC₁₀₀;

BIOCHEMICAL OXYGEN DEMAND: Not pertinent

8.2ppm/96hr/fathead minnow/TLM

FOOD CHAIN CONCENTRATION POTENTIAL: None

SECTION 13: DISPOSAL CONSIDERATIONS

Recover ammonia if feasible. Otherwise, let ammonia evaporate if appropriate. Only personnel experienced in ammonia spills should add water to liquid ammonia. Dispose of diluted ammonia as a fertilizer or in an industrial process. For Hazardous Waste Regulations call (800) 424-9346, the RCRA Hotline.

SECTION 14: TRANSPORT INFORMATION

DOMESTIC SHIPMENTS

INTERNATIONAL SHIPMENTS

Proper shipping name:

Ammonia, Anhydrous

Ammonia, Anhydrous

DOT hazard Class:

2.2 (nonflammable gas)

2.3 (poison gas)

Identification Number:

UN1005

UN1005

Packing Group:

None

None

SECTION 15: REGULATORY INFORMATION

NOTICE: This product is subject to the reporting requirements of SARA (1986, Section 313 of Title III) and 40 CFR Part 370.

CERCWSUPERFUND, 40 CFR 117.302: Unpermitted releases of 100 lb. or more of ammonia in any 24-hour period must be reported immediately to the NRC at 1-800-424-8802, the SERC, and the LEPC. Written follow-up is required to SERC & LEPC.

OSHA HAZARD COMMUNICATION RULE, 20 CFR 1910.1200: Ammonia is considered a hazardous chemical.

TOXIC SUBSTANCE CONTROL ACT: This material is listed in the TSCA Inventory.

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (SARA, TITLE III): Section 302 Extremely Hazardous Substance: Yes; Section 311/312 Hazardous Categories: Immediate (Acute) Health Hazards; Section 313 Toxic Chemical: Yes.

WHMIS: One percent (1%) **CALIFORNIA PROPOSITION 65:** Reproductive: No Carcinogen: No

OSHA PROCESS SAFETY MANAGEMENT, 29 CFR 1910.119: This product is subject to the Process Safety Management requirements of 29 CFR 1910.119 if maintained on-site in quantities of 10,000 lb. or greater.

EPA CHEMICAL ACCIDENTAL RELEASE PREVENTION, 40 CFR PART 68: This product is subject to the Risk Management Plan requirements of 40 CFR Part 68 if maintained on-site in quantities of 10,000 lb. or greater.

DRINKING WATER: Maximum use dosage in potable water is 5mg/l.

SECTION 16: OTHER INFORMATION

REASON FOR REVISION: 1. Addition of new Toll Free Customer Service Number in Section 1.

2. Revision to DOT Proper Shipping Name in Section 14.3. Supersedes MSDS dated 4/15/98

4. Revised LEL and UEL from 16-25% to 15-28%. 5. Revised wording in first line of section 6.

MSDS PREPARED BY: LaRoche Industries Inc.'s Corporate Office of Regulatory Affairs.

This information is taken from sources or based upon data believed to be reliable, however, LaRoche Industries Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing and that additional or other measures may not be required under particular conditions.



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NSF Product and Service Listings

These Listings were Last Updated on **Friday, May 14, 2004** at 4:15 AM Eastern Time.
Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to <http://www.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=laroche&> for the latest most accurate information.

NSF/ANSI STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

LAROCHE INDUSTRIES INC.

1100 JOHNSON FERRY ROAD, NE
ATLANTA, GA 30342
800-226-4572
404-851-0300

Facility : CHEROKEE, AL

Ammonia, Anhydrous[1]

Trade Designation

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Max Use

5 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide [1]

Trade Designation

Ammonium Hydroxide

Aqua Ammonia[1]

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

10 mg/L

10 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : DIXON, CA

Ammonium Hydroxide[1]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|--------------------------|----------------|
| Ammonium Hydroxide | Disinfection & Oxidation | 10mg/L |
| Aqua Ammonia | Disinfection & Oxidation | 10mg/L |

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : LA MIRADA, CA**Ammonia, Anhydrous[1]**

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|--------------------------|----------------|
| Anhydrous Ammonia | Disinfection & Oxidation | 5 mg/L |

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide[1]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|--------------------------|----------------|
| Ammonium Hydroxide | Disinfection & Oxidation | 10 mg/L |
| Aqua Ammonia | Disinfection & Oxidation | 10 mg/L |

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : STOCKTON, CA**Ammonia, Anhydrous[1]**

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|--------------------------|----------------|
| Ammonia | Disinfection & Oxidation | 5mg/L |
| Ammonia Gas | Disinfection & Oxidation | 5mg/L |
| Anhydrous Ammonia | Disinfection & Oxidation | 5mg/L |

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : DAVENPORT, FL**Ammonia, Anhydrous[1]**

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|--------------------------|----------------|
| Anhydrous Ammonia | Disinfection & Oxidation | 5 mg/L |

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide**Trade Designation**

Ammonium Hydroxide
Aqua Ammonia

Product Function

Disinfection & Oxidation
Disinfection & Oxidation

Max Use

10mg/L
10mg/L

Facility : COLUMBUS ,GA**Ammonium Hydroxide[1]****Trade Designation**

Ammonium Hydroxide
Aqua Ammonia

Product Function

Disinfection & Oxidation
Disinfection & Oxidation

Max Use

10mg/L
10mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : JEFFERSONVILLE ,IN**Ammonia, Anhydrous[1]****Trade Designation**

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Max Use

5mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide[1]**Trade Designation**

Ammonium Hydroxide
Aqua Ammonia

Product Function

Disinfection & Oxidation
Disinfection & Oxidation

Max Use

10mg/L
10mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : KANSAS CITY ,KS**Ammonia, Anhydrous[1]****Trade Designation**

Ammonia
Ammonia Gas
Anhydrous Ammonia

Product Function

Disinfection & Oxidation
Disinfection & Oxidation
Disinfection & Oxidation

Max Use

5 mg/L
5 mg/L
5 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : CONCORD ,NC

Ammonia, Anhydrous[1]*Trade Designation*

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Max Use

5 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide[1]*Trade Designation*

Aqua Ammonia

Product Function

Disinfection & Oxidation

Max Use

10mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : DONORA, PA**Ammonia, Anhydrous[1]***Trade Designation*

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Max Use

5 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide[1]*Trade Designation*

Ammonium Hydroxide

Aqua Ammonia

Product Function

Disinfection & Oxidation

Max Use

10mg/L

Disinfection & Oxidation

10mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : PALMERTON, PA**Ammonia, Anhydrous[1]***Trade Designation*

Ammonia

Ammonia Gas

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

5 mg/L

5 mg/L

5 mg/L

[1] All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Ammonium Hydroxide[1]*Trade Designation*

Ammonium Hydroxide

Aqua Ammonia

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

10 mg/L

10 mg/L

[1] All Listed products from this facility are **NSF Certified**, whether or not they bear the **NSF Mark**.

Facility : WAXAHACHIE, TX

Ammonia, Anhydrous[1]

Trade Designation

Anhydrous Ammonia

Product Function

Disinfection & Oxidation

Max Use

5 mg/L

[1] All Listed products from this facility are **NSF Certified**, whether or not they bear the **NSF Mark**.

Ammonium Hydroxide[1]

Trade Designation

Ammonium Hydroxide

Aqua Ammonia

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

10mg/L

10mg/L

[1] All Listed products from this facility are **NSF Certified**, whether or not they bear the **NSF Mark**.

Number of matching Manufacturers is 1

Number of matching Products is 35

Processing time was 1 seconds

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FORMAL QUOTATION NO.: Q-040296

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: 5-17-04

VENDOR NAME: The Daint Company, Inc.

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

GRAND TOTAL (ALL SECTIONS): \$ 111,832.00 (3 sections only)

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES X NO _____

NOTE: Prices shall include firm delivered prices within the minimum/maximum quantity ranges F.O.B., Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: MS

\$ _____ EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Midmax 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: N/B

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 – 2,500 lbs

SECTION 3, CALCIUMHYPOCHLORITE

Specify product name: Arch Chemical - HTH

\$.92 EA. X 8,650 lbs. (100#) pails = Total Cost \$ 7,958.00

Min/max 1 – 20 pails - agree to 1 pail min.

SECTION 4, HYDRATED LIME

Specify product name: N/B

\$ _____ EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons

SECTION 5, POLYMER

Specify product name: N/B

\$ _____ EA. X 16,400 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2154G or equal**

Midmax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: N/B

\$ _____ EA. X 600 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 22446 or equal**

Midmax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: N/A

\$ _____ EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ _____

Manufacturer _____ **Ciba Specialty Chemicals Zetag 7848 or equal**

Midrnax – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: SWEETWATER - CP63D

\$.79 EA. X 70,000 lbs = Total Cost \$ 55,300

Manufacturer SWEETWATER/GENERAL Shannon SNC-RS2 or equal

Midmax 2,000 – 4,000 lbs - agree to 2000 # min.

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: N/A

\$ _____ EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer _____

Midmax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: N/A

\$ _____ EA. X 5,491 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons

SECTION SA, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: N/B

\$ _____ EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: N/B

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Min/max 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: N/B

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: Dow

\$ 2.98 EA. X 16,300 gallons = Total Cost \$ 48,574

Manufacturer DOW CHEMICAL

Min/max 250 – 1,500 gallons agree to 250 gal min.

SECTION 12, SULFUR DIOXIDE

Specify product name: MB

\$ _____ EA. X 34 tons = Total Cost \$ _____

Manufacturer _____

Midmax 2 - 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: MB

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 - 3,000 gallons

TO BE STARTED WITHIN 7 FORMAL QUOTATION NO.: Q-040296
OF AWARD AND PURCHASE ORDER. CALENDAR DAYS AFTER RECEIPT

Is your firm interested in being considered for the Local Vendor Preference?

If yes, then read the paragraph entitled “Local Vendor Preference” included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may **be** grounds to reject the quote.

Are there any modifications *to* the quote or specifications:

Failure *to* clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive *or to* have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County’s Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County’s Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME The Dumont Co., Inc.
BY (Printed): Ronald H. Cartwright, Pres.
BY (Signature) Ronald H. Cartwright, Pres.
TITLE: President
FEDERAL ID # OR S.S.# 65-0436122
ADDRESS: 812 EYRIE DR.
DUJEDA, FL 32765
PHONE NO.: 800-330-1369
FAX NO.: 800-524-9315
CELLULAR PHONE/PAGER NO.: 407-509-4061

LEE COUNTY OCCUPATIONAL LICENSE NUMBER _____
E-MAIL ADDRESS: RON.CARTWRIGHT@DUMONTCHEMICALS.COM

REVISED 7/28/00

SECTION 3

POOLIFE
PROFESSIONAL POOL CARE COLLECTION

POOLIFE™ Active Cleaning™ Granules



Description

POOLIFE Active Cleaning Granules provides effective chlorination at an economical price. You can broadcast it over the pool surface or pre-dissolve it in water and add it as liquid.

POOLIFE Active Cleaning Granules destroy germs, algae and bacteria and oxidizes organic contaminants, leaving the pool water clean and sparkling clear for bather comfort and protection.

It can be used for daily maintenance or for a weekly shock treatment.

Application and Dosage

POOLIFE Active Cleaning Granules is fast dissolving and can be added directly to the pool by broadcasting the product over the pool surface, in deepest part of the pool, while the circulation system is running, or you can pre-dissolve prior to adding to the pool or skimmer if desired

ROUTINE CHLORINATION: Throughout the pool season, adjust and maintain pH to 7.2-7.6.

FOR UNSTABILIZED POOLS: Add 6-8 ounces of this product per 10,000 gallons of pool water daily or as often as needed to maintain the free available chlorine, residual at 1-4 ppm

FOR POOLS STABILIZED USING POOLIFE STABILIZER AND CONDITIONER:

Add 3-4 ounces per 10,000 gallons every other day or as often as needed to maintain the free available chlorine residual at 1-4 ppm.

Use POOLIFE poolcare products to make adjustments. Follow label directions for each product.

SHOCK TREATMENT: Adjust and maintain pH to 7.2-7.6 with POOLIFE pH Plus or POOLIFE pH Minus. Follow label directions on those products. Add 1 lb. (16 oz.) of this product per 10,000 gallons of water. This will provide a dosage of 7.5 ppm free available chlorine. For easy effective shock treatment, POOLIFE Rapid Shock, Intensive Shock, or Turbo Shock may be used instead. Follow label directions on those products. Follow "HOW TO USE" directions on this package. DO NOT enter pool until the free chlorine residual is 1-4 parts per million (ppm).

OPENING YOUR POOL: Adjust and maintain pH in the 7.2-7.6 range. Follow "SHOCK TREATMENT" directions on this package. Allow 30 minutes for product to disperse. Test free available chlorine residual with a pool test kit. DO NOT enter pool until the free available chlorine residual is 1-4 ppm. Repeat treatment is needed.

Quick Facts

POOLIFE Active Cleaning granules provide effective chlorination at an economical price. They can be used for routine maintenance or as a shock treatment. POOLIFE Active Cleaning Granules are effective at destroying bacteria, controlling algae and at oxidizing organic contaminants. They can be used for daily maintenance or weekly shock treatment.

- Calcium Hypochlorite
- 68% available chlorine
- 5 to 6 times stronger than liquid chlorine
- Fast Dissolving
- Can be pre-dissolved
- Routine maintenance or shock treatment
- 6-8 oz per 10,000 gallons
- Sizes 5#, 35#, 50, 100#

SHOCK

ALGAEICIDES

BALANCERS/
MAINTENANCE

ACCESSORIES

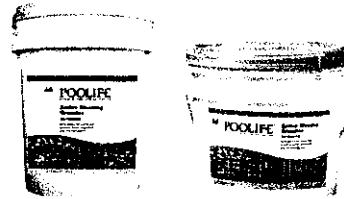
HTH® POOLIFE™ CHLORINATORS YELLOW

POOLIFE™ chlorinators are designed to effectively guard against bacteria, algae and other contaminants. The granular chlorinator products dissolve quickly when broadcast over the pool surface, clean with fast results, and will not over-stabilize your pool. The caplet and tablet products (for use in skimmers or floaters) dissolve slowly for continuous chlorination and can last four days depending on water conditions and pump run time. For ease of use, a free scoop is provided for sizes of 5 lbs. or larger.



HTH® POOLIFE™ Active Cleaning Granules™

- Provides Effective Chlorination at an Economical Price
- Either Broadcast Over the Pool Surface or Pre-dissolve and Add as a Liquid
- 68% Available Chlorine



| SKU NUMBER | PRODUCT AND PACKAGE | UNIT NET WEIGHT (LBS.) | UNIT WIDTH (INCHES) | POUNDS / CUBIC FEET | UNIT UPC CODES |
|------------------|--------------------------|------------------------|---------------------|---------------------|----------------|
| 22207 | Active Cleaning Granules | 6 x 5 lb. | 14.63 | 31.35 | 071387222077 |
| 22206 | Active Cleaning Granules | 25 | 12.58 | 26.32 | 071387222060 |
| 22208 | Active Cleaning Granules | 50 | 12.58 | 42.29 | 071387222084 |
| 22209 | Active Cleaning Granules | 95 | 15.86 | 42.33 | 071387222091 |
| 22230 | | 100 LB | | | 07138722230 |

HTH® POOLIFE™ Active Cleaning Tablets™

- Provides Effective Chlorination at an Economical Price
- Designed for Use in the Skimmer or a Floater
- 68% Available Chlorine

| SKU NUMBER | PRODUCT AND PACKAGE | UNIT NET WEIGHT (LBS.) | UNIT WIDTH (INCHES) | POUNDS / CUBIC FEET | UNIT UPC CODES |
|------------|-------------------------|------------------------|---------------------|---------------------|----------------|
| 22204 | Active Cleaning Tablets | 6 x 5 lb. | 14.63 | 31.35 | 071387222046 |
| 22203 | Active Cleaning Tablets | 35 | 12.58 | 36.65 | 073 187222039 |
| 22205 | Active Cleaning Tablets | 50 | 12.58 | 42.29 | 071387222053 |

All product images shown on this page are available on the HTH® POOLIFE™ Photo Collection Disk. These images are to be used solely for the purposes of advertising HTH® POOLIFE™ products. Any alteration of the images or use for other than advertising HTH® POOLIFE™ products without prior written consent from the Arch Chemicals Marketing Department is expressly prohibited. If you have any questions, please contact Deanna King at (770) 970-4032.

SECTION 6

SWEETWATER

Technical Information
Bulletin

CP 630

Orthopolyphosphate

- **ANSI/NSF 60 Classified**
- **Eliminates costly leaks due to corrosion**
- **Reduces or eliminates the need for pH adjustment**
- **Eliminates unsightly red water complaints**
- **Reduces overall treatment costs**
- **Lowers THM's by maintaining a lower pH environment**

Principal Uses

Sweetwater CP 63D is a dry specialty phosphate corrosion inhibitor used in the protection of potable water conduits in the transmission of public water supplies. CP-63D has been specifically formulated to provide a synergistic blend of proprietary phosphate salts to reduce or eliminate the corrosion process in potable water. When used without pH adjusters such as caustic soda or lime, CP 63D can help reduce THM formation rates as THM's are produced at a retarded rate at a lower pH.

General Description

| | |
|---------------|--------------------|
| Form | Dry |
| Color | White |
| Odor | Slight to None |
| Particle Size | Granular to Powder |

Typical Dosage Rates

| | |
|--------------|------------|
| Pacification | 3 - 15 ppm |
| Maintenance | 2 - 6 ppm |

Feeding

Sweetwater CP 63D is best fed as a solution prepared by slowly adding the product to water under agitation. As the solubility will vary based upon water chemistry and temperature, initial dilutions should be less than 10%. Pumps should be selected to handle a dosage within the typical feed rates identified above.

Handling and Storage

Sweetwater CP 63D is a hygroscopic material and should be treated as such. Avoid contact with skin or eyes and wash affected area immediately if contact is made. If irritation persists call a physician. Do not take internally.

Sweetwater CP 63D can be stored in unopened containers for extended periods of time. Bulk CP 63D should be stored in lined steel, Fiberglass or cross linked polypropylene tanks. As CP 63D can be a corrosive material, all contacted storage tanks or feed pumps should be engineered to withstand a corrosive environment.

Shipping

Sweetwater CP 63D is available in either bag, supersack or bulk quantities from various locations around the United States.

This product bulletin has been provided to you for reference purposes only. For further information on Sweetwater products or services please contact your local Sweetwater representative or Sweetwater national headquarters at the following address:

Sweetwater Technologies

A Division of National Sweetwater, Inc.
P.O. Box 1473, Temecula, CA 92593
(800) 426-2428 FAX (931) 540-1338





Sweetwater Technologies

P.O. Box 1473, Temecula, CA 92593
Telephone (800) 426-2428 FAX (931) 540-1338

Material Safety Data Sheet

Section I- Identification

| | | | |
|-----------------------------|-------------------------------------|-------------|-------------|
| Trade Name: | CP 63D | CAS Number: | NIA |
| Chemical Name and Synonyms: | Condensed inorganic Phosphate Blend | | |
| Chemical Name: | Corrosion Inhibitor | Formula: | Proprietary |

| Component | % | TLV-TWA |
|--|---|---------|
| This product contains no hazardous ingredients as defined in 29 CFR 1910, 1200 | | |
| | | |
| | | |
| | | |

| | | | |
|-------------------------|--------------|----------------------------|-----|
| Boiling Point (C) | | Specific Gravity | |
| Vapor Pressure (mm Hg) | N/A | Percent Volatile by Volume | |
| Vapor Density (Air = 1) | N/A | Evaporation Rate | |
| Solubility in Water | Infinite | pH Neat | N/A |
| Appearance and Odor: | White Powder | | |

Section IV - Fire and Explosion Data

| | | | | | |
|---|------------|--|-----|-----|-----|
| Flash Point Method: | >200 F TOC | Flammable Limits | LEL | N/A | UEL |
| Extinguishing Media: | | Dry chemical, foam and CO2 | | | |
| Special Fire, Hazard, and Fire Fighting Procedures: | | Exercise caution when fighting any chemical fire. Respiratory protection is essential. | | | |

Section V - Reactivity Data

| | | | | | |
|--------------------------------------|------------|-----------------------------------|------------|----------------------|------------|
| Stability: | Stable | Hazardous Polymerization: | No | Conditions to Avoid: | None Known |
| Incompatibility. Materials to Avoid: | None Known | Hazardous Decomposition Products: | None Known | | |

Section VI - Health Hazard Data

| | |
|---------------------------------------|--|
| Threshold Limit Value (TWA): | None Known |
| Symptoms of Overexposure: | None Known |
| Primary Routes of Entry: | Skin |
| Toxicity Information: | Slightly toxic if swallowed |
| Emergency First Aid Procedures | |
| Skin: | In case of contact remove contaminated clothing and immediately wash skin with soap and water. |
| Eyes: | In case of contact Rush with copious amounts of water for at least 15 minutes call a physician. |
| Ingestion: | Give large quantities of water and induce vomiting. Call a physician immediately. |
| Inhalation: | Avoid breathing dusts or vapors. Move individual to an uncontaminated area and administer oxygen if necessary. Call a physician. |

Section VII - Special Protection Information

| | | | |
|--|--------------------------------------|-----------------------------|----------------------------|
| Respiratory Protection (Specify Type): | Wear NIOSH approved mist respirator. | | |
| Ventilation: | Area should be well ventilated. | Protective Gloves: | Rubber |
| Eye Protection: | Safety glasses or eye goggles. | Other Protective Equipment: | Eye bath and safety shower |

| | |
|---|--|
| Steps to be taken in case material is released or spilled: | Dispose of in accordance with local, state and federal regulations. Dike area to contain as much spilled material as possible. Remove any remaining material by absorbing with vermiculite or other suitable absorbing material. |
| Waste Disposal Method: | Follow state, federal and local regulations for disposal in an approved landfill |

Section IX - Special Precautions

| | | | |
|--|--|-------------|----------------------------|
| Precautions to be taken in handling and storing: | Avoid contact with eyes, skin and clothing. Keep container closed. Wash thoroughly after handling. | | |
| Date of Issue: | 05/06/97 | Supersedes: | Prepared by: Marie D'Abato |

The above information is based upon information Sweetwater believes to be true and correct and is supplied for informational purposes only. Sweetwater disclaims any damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including warranty of merchantability or fitness for a particular purpose) or representation (including representation from patentability) by Sweetwater with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Sweetwater. The final determination of the suitability of the information, the manner of use of the information and potential infringement is the sole responsibility of the user.



LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: May 14, 2004

VENDOR NAME: Chemical Lime Company

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

NA

GRAND TOTAL (ALL SECTIONS): \$ 697,143.56

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO x

FE: Prices shall be firm live prices within a minimum/maximum unit ranges F.C.B. L. County Florida the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: No Bid

\$ _____ EA X 2,228 dry tons = Total Cost \$ _____

Manufacturer NA

4 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: No Bid

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer NA

Min/max 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: No Bid

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____

Midmax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: Bulk Hvdrate

\$ 143.00 EA. X 40 tons = Total Cost \$ 5,720.00

Manufacturer Chemical Lime CompanY

Midmax 25 tons

SECTION 5, POLYMER

Specify product name: No Bid

\$ _____ EA. X 16,400 lbs = Total Cost \$ _____

Manufacturer NA Calcquest 2154G or equal

Min/max 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: No Bid

\$ _____ EA. X 600 lbs = Total Cost \$ _____

Manufacturer NA Calcquest 2244G or equal

Min/max 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: No Bid

\$ _____ EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ _____

Manufacturer NA **Ciba Specialty Chemicals Zetag 7848 or equal**

Min/max - four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: No Bid

\$ _____ EA. X 70,000 lbs = Total Cost \$ _____

Manufacturer NA **Shannon SNC-RS2 or equal**

Min/max 2,000 - 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: No Bid

\$ _____ EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer NA

Min/max 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: Small Pebble

\$ 125.16 EA. X 5,491 tons = Total Cost \$ 687,253.56

Manufacturer Chemical Lime Company

Min/max 25 tons

SECTION SA, QUICKLIME, (FOUNDRY *sue: -3/8 x 1/16*)

Specify product name: Foundry

\$ 139.00 EA. X 30 tons = Total Cost \$ 4,170.00

Manufacturer Chemical Lime Company

Midmax 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: No Bid

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer NA

Midmax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: No Bid

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer NA

Midmax 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: No Bid

\$ _____ EA. X 16,300 gallons = Total Cost \$ _____

Manufacturer NA

Midmax 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: No Bid

\$ _____ EA. X 34 tons = Total Cost \$ _____

Manufacturer NA

Min/max 2 - 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: No Bid

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer NA

Min/max 500 - 3,000 gallons

TO BE STARTED WITHIN 2 CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No X

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No X

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

NA

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the county.

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THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME Chemical Lime Company of Alabama, Inc.

BY (Printed): John L. Thompson

BY (Signature): *John L. Thompson*

TITLE: Florida Manager

FEDERAL ID # OR S.S.# 63-1002780

ADDRESS: P O Box 1137

Mulberry, Florida 33860

PHONE NO.: - - 4

FAX NO.: - - 6

CELLULAR PHONE/PAGER NO.: 863-698-2483

LEE COUNTY OCCUPATIONAL LICENSE NUMBER NA

E-MAIL ADDRESS: John.Thompson@Chemicallime.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete **Part A** if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the **size of** this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 30+
2. Describe the types **and** amount **of** equipment you have available to service this contract.

Chemical Lime Company has terminals in Ft. Lauderdale,
Nichols, Brooksville and Alabama that manufacture
and distribute quicklime, hydrated lime and foundry
lime.

3. Describe the types and amount of material stock that you have available to service this contract.

Most locations capable of inventory levels up to 1000

- ~~tons (including quicklime, hydrated lime and foundry).~~
4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes _____ No (began in 2001)

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT Please read carefully and return with your bid proposal.

Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked.
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided
- 7. All addendums issued, if any, have been acknowledged in the space provided.
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- 9. Bid Bond **and/or** certified Check, (if required) have been submitted with the quote in amounts indicated,
- 10. Any Delivery information required is included
- 11. The mailing envelope has been addressed to:

| | |
|---------------------------------|---|
| MAILING ADDRESS | PHYSICAL ADDRESS |
| Lee County Purchasing | Lee County Purchasing |
| P.O. Box 398 or | 1825 HENDRY STREET, 3RD FLOOR |
| Ft. Myers, FL 33902-0398 | Ft. Myers, FL 33901 |
- 12. The mailing envelope **MUST** be sealed and marked with:
 - Quote Number
 - Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later **than** the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
- 14. If submitting a "NOBID" please write quote number here NA and check one of the following:
 - Do not offer **this** product Insufficient time to respond.
 - Unable to meet specifications (why)
 - Unable to meet bond or insurance requirement.
 - Other: _____

Company Name **and** Address:



May 14,2004

Ms. Chevone Peterson
Lee County
3434 Hancock Bridge Parkway, 3rd Floor
Fort Myers, Florida 33902

Subject: Project No.: Q-040296 Annual Purchase of Chemicals for Utilities

Dear Ms. Peterson:

Thank you for the opportunity to submit our bid for Lee County's purchase of chemicals for utilities.

Please find attached the completed bid documents, submitted in triplicate, as well as a second envelope containing all requested attachments submitted in duplicate.

In the instance where we are not able to attend the bid opening, we would appreciate a copy of the bid results emailed to us at Elizabeth.Hart@chemicallime.com.

We value our relationship with Lee County's water treatment plants and look forward to working with Lee County in the future years. Should you have any questions or need additional information, please do not hesitate to call me.

Very truly yours,

CHEMICAL LIME COMPANY

Elizabeth A. Hart
Sales and Distribution Coordinator

Enclosure (s)

Chemical Lime Company
P.O. Box 1137, Mulberry, Florida 33860
Phone :(800) 695-5657 Fax :(863) 425-0686

Chemical Lime Company
Florida Operations
P.O. Box 1137
Mulberry, Florida 33860
800-695-5657
863-425-1544
Fax: 863-425-0686

Nichols Terminal: John L. Thompson
Florida Manager
863-698-2483 Cellular
john.thompson@chemicallime.com

Elizabeth Hart
Sales & Distribution Coordinator
863-698-8769 Cellular
elizabeth.hart@chemicallime.com

Elizabeth Jernigan
Sales Administrator
863-661-1096 Cellular
elizabeth.jernigan@chemicallime.com

Brooksville Terminal: 10311 Cement Plant Road
Brooksville, Florida 34601
Contact: 863-425-1544

Fort Lauderdale Terminal: 708 West McNab Road
Fort Lauderdale, Florida 33999
Contact: 863-425-1544



May 14,2004

Ms. Chevone Peterson
Lee County
3434 Hancock Bridge Parkway, 3rd Floor
Fort Myers, Florida 33902

Subject: National Response Center / Quotation #Q-040296

Dear Ms. Peterson:

Chemical Lime Company utilizes Commercial Carrier Corporation as our exclusive hauler for quicklime products in the state of Florida. Over the past five years, there have not been any accidents, incidents, releases or spills that have resulted in a contract being terminated for safety, quality, or service issues.

Should you have any questions, or need additional information, please do not hesitate to contact me.

Sincerely,

CHEMICAL LIME COMPANY

A handwritten signature in cursive script that reads 'Elizabeth A. Hart'.

Elizabeth A. Hart
Sales and Distribution Coordinator

Chemical Lime Company
P.O. Box 1137, Mulberry, Florida 33860
Phone :(800) 695-5657 Fax :(863) 425-0686

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved



| | |
|--|--|
| IDENTITY Quicklime, CaO, Lime Calcium oxide (all sizes including granular) (UN1910) | <i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i> |
|--|--|

| | | | |
|---|----------------------|--|-------------------------|
| Chemical Lime Company 3724 Hulen Street Fort Worth, Texas 76107 | Chemtrec 800424-9300 | Information Phone Number 817-732-8164 | Date Prepared 6/1/01 |
|---|----------------------|--|-------------------------|

| Hazardous Components | CAS | Common Name | OSHA PEL | ACGIH TLV | Other Limits | % (optional) |
|----------------------|------------|-------------|-----------|-----------|--------------|--------------|
| Calcium oxide | 1305-78-8 | Quicklime | 5 mg/m3 | 2 mg/m3 | 5 mg/m3 | >90% |
| Magnesium oxide | 1309484 | Periclase | 10mg/m3 | 10 mg/m3 | 6 mg/m3 | <5% |
| Calcium carbonate | 1317-65-3 | Limestone | 15 mg/m3 | 10mg/m3 | 6450 mg/kg | <3% |
| Silicon dioxide | 14808-60-7 | Quartz | 0.1 mg/m3 | 0.1 mg/m3 | 4 mg/m3 | <2% |

Section III - Physical/Chemical Characteristics

| | | | | | |
|------------------------|---------|---------------|---------|------------------|----------------|
| Boiling Point | 2850 °C | Melting Point | 2570 °C | Specific Gravity | 1.6 - 2.8 g/cc |
| Vapor Pressure (mm Hg) | N.A. | Vapor Density | N.A. | Evaporation Rate | N.A. |

| | | | |
|-------------|-------|------------------|---|
| Flash Point | LEUEL | Flammable Limits | Extinguishing Media |
| N.A. | N.A. | N.A. | Not Combustible -- Use extinguishing agent for surrounding fire |

| | |
|-----------|--|
| Stability | Conditions to Avoid (stability-related) |
| Unstable | Reacts with water to form Ca(OH) ₂ and large amounts of heat. Reacts with CO ₂ to form CaCO ₃ . |

sneezing or breathing problems. Material in contact with wet skin could cause severe irritation andlor burning.

Carcinogenicity: OSHA? SiO₂ NTP/IARC Monographs? SiO₂

Respirable crystalline silica from occupational sources is classified by IARC as a Group I Carcinogen.

California Proposition 65: Silica is on the Governor's Proposition 65 list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium) that are on the Governor's Proposition 65 list.

Section VI - Health Hazard Data (continued)

Signs and Symptoms & Exposure

| | | | |
|--|--|---------|---|
| Ventilation | Local Exhaust Vent to dust collector | Special | Do not dispose of dust with combustible materials. |
| | Mechanical (General) Vent to meet TLV requirements | Other | |
| Protective Gloves Dry cloth or leather gloves | Other Protective Clothing or Equipment Full clothing to cover arms and legs, safety glasses or face shield. | | |



| | |
|---|--|
| IDENTITY High Calcium Hydrated Lime Ca(OH) ₂ , Calcium hydroxide, technical | <i>Note: Blank spaces are not permitted. If any item is not applicable, or if information is available, the space must be marked to indicate this.</i> |
|---|--|

Section II - Hazardous Ingredients/Identity Information

| Hazardous Components | CAS | Common Name | OSHA PEL | ACGIH TLV | Other Limits | Options |
|----------------------|------------|---------------|-----------------------|-----------------------|---------------------|---------|
| Calcium hydroxide | 1305-62-0 | Hydrated Lime | 5 mg/m ³ | 5 mg/m ³ | 7340 mg/kg | 909 |
| Magnesium hydroxide | 1309-42-8 | Brucite | N.A. | N.A. | | <5% |
| Magnesium oxide | 1309-48-4 | Periclase | 10 mg/m ³ | 10 mg/m ³ | 6 mg/m ³ | <5% |
| Calcium carbonate | 1317-65-3 | Limestone | 15 mg/m ³ | 10 mg/m ³ | 6450 mg/kg | :3% |
| Silicon dioxide | 14808-60-7 | Quartz | 0.1 mg/m ³ | 0.1 mg/m ³ | 4 mg/m ³ | :2% |

Section III - Physical/Chemical Characteristics

| | | | | | |
|------------------------|---|---------------|-------------|------------------|----------------|
| Bailing Point | 2850 °C | Melting Point | dec. 580 °C | Specific Gravity | 2.2 - 2.4 g/cc |
| Vapor Pressure (mm.Hg) | N.A. | Vapor Density | N.A. | Evaporation Rate | N.A. |
| Solubility in Water | Slightly soluble in water. pH=12.4@25°C | | | | |
| Appearance and Odor | White or gray powder, odorless | | | | |

Section IV - Fire and Explosion Hazard Data

| | | | |
|--|-------|------------------|--|
| Flash Point | LEUEL | Flammable Limits | Extinguishing Media |
| N.A. | N.A. | N.A. | Not Combustible - Use extinguishing agent for surrounding fire |
| Special Firefighting Procedures/Unusual Fire and Explosion Hazards | | | |
| Avoid skin contact or inhalation of dust. | | | |

Section V - Reactivity Data

| | |
|---|---|
| Stability | Conditions to Avoid (stability - related) |
| Stable | Material is stable |
| Incompatibility (Materials to Avoid) | |
| Acids: Reacts vigorously and produces heat. Maleic Anhydride: May react explosively. Nitro Organic Compounds: May react to form explosive salts. Phosphorous: May form flammable products when heated. Aluminum: May react in presence of water to form hydrogen gas. | |
| Hazardous Polymerization/Hazardous Decomposition of Byproducts | Will not occur (none) |

Section VI - Health Hazard Data

| | |
|--|--|
| Route(s) of Entry: | Inhalation, Ingestion |
| Health Hazards (Acute and Chronic) | |
| Avoid skin and eye contact as irritation will occur. Inhalation can cause coughing, sneezing, or breathing problems. | |
| Carcinogenicity: | OSHA? SiO ₂ NTP/IARC Monographs? SiO ₂ |
| Respirable crystalline silica from occupational sources is classified by IARC as a Group I Carcinogen. California Proposition 65: Silica is on the Governor's Proposition 65 list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium) that are on the Governor's Proposition 65 list. | |

Section VI -Health Hazard Data (continued)

Signs and Symptoms of Exposure

Skin or eye irritation; coughing or breathing problems.

Medical Conditions Generally Aggravated by Exposure

Respiratory problems, asthma, dermatitis or skin or eye sensitivity.

Emergency and First Aid Procedure

Flush contaminated area with excess water. If eye contact, rinse eye with warm water for 30 minutes and seek medical attention immediately.

Section VII -Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Protect skin and eyes from contact and avoid inhalation of dust. If material is dry pick up and keep away from acids or organic materials. Place in steel drums.

Waste Disposal Method

Carefully add water and flush to sewer. Consult local, state, or federal regulations.

Precautions to be Taken in Handling and Storage

Store in tightly closed containers and keep dry and away from acids or other incompatible substances. Do not store or ship in aluminum containers.

Other Precautions

Avoid eye contact and breathing dust.

| | | | |
|----------------------|-----------|-----------------|---------------|
| NFPA Rating: | HEALTH: 1 | FLAMMABILITY: 0 | REACTIVITY: 0 |
| HMIS Rating: | HEALTH: 1 | FLAMMABILITY: 0 | REACTIVITY: 0 |
| WHMIS Rating: | D2A, E | | |

Section VIII -Control Measures

Respiratory Protection (Specify Type)

Dust masks meeting the NIOSH N95 rating are sufficient for casual exposure. (42 CFR)

| | | | |
|--------------------|-------------------------------|----------------|--|
| Ventilation | Local Exhaust | Special | Do not dispose of dust with combustible materials. |
| | Vent to dust collector | | |
| | Mechanical (General) | Other | |
| | Vent to meet TLV requirements | | |

Protective Gloves

Dry cloth or leather gloves

Other Protective Clothing or Equipment

Full clothing to cover arms and legs, safety glasses or face shield.

Work/Hygienic Practices

Eye wash and shower station should be readily available.

Chemical Lime Company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must consult their own technical and legal advisors and/or exercise their own judgment in determining its appropriateness for a particular purpose. Chemical Lime Company makes no representations or warranties, either express or implied, including without limitation and warranties of merchantability or fitness for a particular purpose with respect to the information set forth herein or the product(s) to which the information refers. Accordingly, Chemical Lime Company will not be responsible or liable for any claims, losses or damages resulting from the use of or reliance upon or failure to use this information.

References: Sax, N.I. & R.J. Lewis Sr. (1989) "Dangerous Properties of Industrial Materials", New York: Van Nostrand Reinhold Co. Ltd.
 Lewis, R.J. (1997) "Hazardous Chemicals Desk Reference", New York: Van Nostrand Reinhold Co. Ltd. kdi phd



AUTHORIZATION

Gentlemen:

This letter is to certify that the following personnel are duty authorized to execute bid proposals, sales agreements and price *quotations* on behalf of Chemical Lime Company of Alabama, Inc. ("CLC")

| | |
|------------------|--------------------------|
| Oliver Booth | Sales Manager |
| Jimmy Weidenback | Distribution Manager |
| John Thompson | Florida District Manager |

The undersigned, as Senior Vice President of Chemical Lime Company of Alabama, Inc. **has full** authority to sign **this** letter on behalf of CLC.

Sincerely,

CHEMICAL LIME COMPANY OF ALABAMA, INC

By: _____

Mike Eliassen, Senior Vice President

Date: September 23, 2002

*

2003-2004

POLK COUNTY OCCUPATIONAL LICENSE TAX
STATE OF FLORIDA

ACCOUNT 456-0001594

EXPIRES SEPTEMBER 30, 20 04

FACILITIES
OR
MACHINES

ROOMS

SEATS

EMPLOYEES

ORIGINAL LICENSE
MUST BE DISPLAYED IN A CONSPICUOUS PLACE

TYPE OF
BUSINESS

456 WHOLESALE DISTRIBUTOR

SUPPLEMENTAL
RENEWAL
NEW LICENSE
TRANSFER-
ORIGINAL TAX

45.00

BUSINESS
ADDRESS

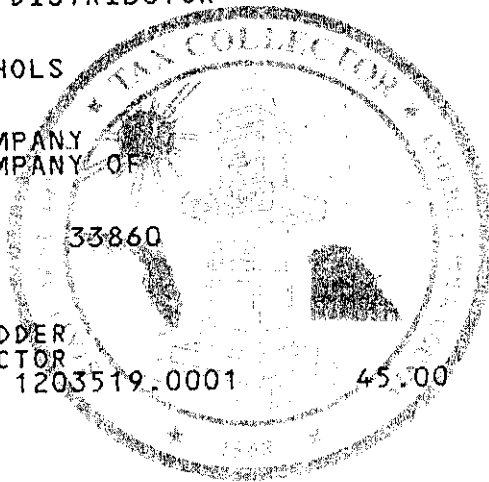
CTY RD 676 - NICHOLS
MB - MULBERRY

AMOUNT
PENALTY
COLLECTION COST
TOTAL

45.00

NAME
MAILING
ADDRESS

CHEMICAL LIME COMPANY
CHEMICAL LIME COMPANY OF
ALABAMA INC
PO BOX 1137
MULBERRY FL



JOE G. TEDDER
TAX COLLECTOR
PAID 08/08/03 1203519.0001 45.00

IS HEREBY LICENSED TO ENGAGE IN BUSINESS,
PROFESSION, OR OCCUPATION SPECIFIED HEREON

JOE G. TEDDER
TAX COLLECTOR

430 E. MAIN STREET, BARTOW, 33830 (863) 534-4731

 **Underwriters laboratories Inc.®**
CERTIFICATE OF COMPLIANCE

CERTIFICATE NUMBER: 101202-MH17190

ISSUE DATE: December 10, 2002 Page 1 of 1

Issued to: CHEMICAL LIME CO
PO BOX 985004
Ft. Worth, TX 76185

Report Reference: MH17190, July 10, 1996

This is to Certify that
representative samples of:


Calcium Oxide
From: Nichols, FL North Las Vegas, NV
Stockton, CA Hurst, TX
Clifton, TX City of Indusuy, CA
Henderson, CO Langley, Bnash Columbia, Canada

Have been investigated by Udemriters Laboratories Inc.® in accordance with the Standard(s) indicated on this Certificate.


Standard(s) for Safety: ANSI/NSF Standard 60-Drinking Water Treatment Additives

Additional Information: Category: Corrosion and Scale Control, Softening, Sequestering, Precipitation,
and pH Adjustment
Maximum Use Level: Calcium Oxide 500mg/L

Only those products bearing the UL Classification Marking should **be** considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Marking includes UL in a circle symbol  with the word "CLASSIFIED" (as shown), a control number (may be alphanumeric) assigned by UL, a statement to indicate the extent of UL's evaluation of the product, and, the product category name (product identity) as indicated in the appropriate UL Directory

LOOK FOR THE UL CLASSIFICATION MARKING ON THE PRODUCT

Engineer: 
Karine Johnfroe
Underwriters Laboratories Inc.

Review Engineer: 
Richard Winton
Underwriters Laboratories Inc.



Chemical Lime
A Limestone Company

CERTIFICATE of COMPLAINT

To Whom It **May** Concern :

The Hydrated Lime distributed by Chemical Lime Company meets or exceeds the requirements of the AWWA Standard B202-93.

Greg Pendleto
Senior Manager of Quality
Chemical Lime Company
Alabama Operations

FORMAL QUOTATION NO.: Q-040296

**LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES**

DATE SUBMITTED: May 12, 2004

VENDOR NAME: Polydyne Inc.

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

None

GRAND TOTAL (ALL SECTIONS): \$ 76,500.00

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO X _____

NOTE: Prices shall include **firm** delivered prices within the **minimum/maximum quantity** ranges **F.O.B., Lee County** Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: NA

\$ _____ EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: NA

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Minimax 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: NA

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____

Min/max 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: NA

\$ _____ EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 tons

SECTION 5, POLYMER

Specify product name: Clarifloc A-3320

\$ 1.03/Lb. EA. X 16,400 lbs = Total Cost \$ 16,892.00

Manufacturer Polydyne Inc. **Calciquest 21546 or equal**

Minimax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: Clarifloc A-3333P

\$ 1.18/Lb. EA. X 600 lbs = Total Cost \$ 708.00

Manufacturer Polydyne Inc. **Calciquest 22446 or equal**

Minimax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: Clarifloc SE-685

\$0.89/Lb. EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ 44,500.00

Manufacturer Polydyne Inc. **Ciba Specialty Chemicals Zetag 7848 or equal**

Minimax – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: NA

\$ _____ EA. X 70,000 lbs = Total Cost \$ _____

Manufacturer _____ **Shannon SNC-RS2 or equal**

Minimax 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: Claricarb 118

\$0.36/Lb. EA. X 40,000 lbs = Total Cost \$ 14,400.00

Manufacturer Envirotrol

Minimax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: NA

\$ _____ EA. X 5,491 tons = Total Cost \$ _____

Manufacturer _____

Minimax 25 tons

SECTION 8A, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: NA

\$ _____ EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: NA

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Minimax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: NA

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer _____

Minimax 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: A

\$ _____ EA. X 16,300 gallons = Total Cost \$ _____

Manufacturer _____

Minimax 250 – 1,500 gallons



SECTION 12, SULFUR DIOXIDE

Specify product name: NA

\$-_____ EA. X 34 tons = Total Cost \$ _____

Manufacturer _____

Minimax 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: NA

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 – 3,000 gallons

TO BE STARTED WITHIN 3 - 5 CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No _____

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER RIDDERS LIST.

FIRM NAME Polydyne Inc.

BY (Printed): Mark Schlag

BY (Signature): 

TITLE: Controller

FEDERAL ID # OR S.S.# 34-1810283

ADDRESS: P. O. Box 279, 1 Chemical Plant Road, Riceboro, GA 31323

PHONE NO.: 912-880-2035

FAX NO.: 912-880-2078

CELLULAR PHONE/PAGER NO.: Cell: 352-409-3938
Larry Fenimore, Technical Sales Representative

LEE COUNTY OCCUPATIONAL LICENSE NUMBER: N/A

E-MAIL ADDRESS: polybid@polydyneinc.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

NA

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 598
There are three primary representatives that will be servicing Lee County:
Larry Fenimore, Billy Marullo & Jim Loomis
2. Describe the types and amount of equipment you have available to service this contract.

Polydyne Inc. has eight fully integrated, fully equipped,
manufacturing facilities and storage and warehousing facilities.
Transport of our products is handled by common carrier.

3. Describe the types and amount of material stock that you have available to service this contract.

Polydyne Inc. manufactures solutions, emulsions and powders.
The production capacity is 170,000 dry tons per year, Of this,
85,000 total dry tons per year ar dedicated to existing contracts.

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes _____ No X

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

NA

FORMAL QUOTATION NO.: Q-040296
LEE COLJNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.
Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked.
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided.
- 7. All addendums issued, if any, have been acknowledged in the space provided
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- NA 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- NA 10. Any Delivery information required is included.
- 11. The mailing envelope has been addressed to:

| | |
|---|--|
| MAILING ADDRESS Lee County Purchasing P.O. Box 398 or Ft. Myers, FL 33902-0398 | PHYSICAL ADDRESS Lee County Purchasing 1825 HENDRY STREET, 3 RD FLOOR Ft. Myers, FL 33901 |
|---|--|
- 12. The mailing envelope **MUST** be sealed and marked with:
Quote Number
Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
- 14. If submitting a "NO BID" please write quote number here _____
and check one of the following:
 Do not offer this product _____ Insufficient time to respond.
 Unable to meet specifications (why)
 _____ Unable to meet bond or insurance requirement.
 Other: _____

 Company Name and Address:

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

8

DATE SUBMITTED: May 14, 2004

VENDOR NAME: Fort Bend Services, Inc.

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

GRAND TOTAL (ALL SECTIONS): \$ _____

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO x _____

NOTE: Prices shall include firm delivered prices within the minimum maximum quantity ranees F.O.B.. Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: _____

\$ _____ EA. X 2,228 dry tons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: _____

\$ _____ EA. X 70 tons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: _____

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ "NO BID"

Min/max 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: _____

\$ _____ EA. X 40 tons = Total Cost \$ "NO BID"

Manufacturer _____

Midmax 25 tons

SECTION 5, POLYMER

Specify product name: Superfloc A130HMW

\$ 1.04 EA. X 16,400 lbs = Total Cost \$ 17,056.00

Manufacturer Cytec Industries Calciquest **2154G** or equal

Min/max 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: Superfloc A130HMW

\$ 1.04 EA. X 600 lbs = Total Cost \$ 624.00

Manufacturer Cytec Industries Calciquest **2244G** or equal

Min/max 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: FBS 7802

\$ 0.90 EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ 45,000.00

Manufacturer Chemtall/SNF **Ciba Specialty Chemicals Zetag 7848 or equal**

Midmax – four (4) 55 gallon drums

SECTION 6. POLYPHOSPHATE

Specify product name: _____

\$ _____ EA. X 70,000 lbs = Total Cost \$ “NO BID”

Manufacturer _____ **Shannon SNC-RS2 or equal**

Min/max 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: _____

\$ _____ EA. X 40,000 lbs = Total Cost \$ “NO BID”

Manufacturer _____

Midmax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8”)

Specify product name: _____

\$ _____ EA. X 5,491 tons = Total Cost \$ “NO BID”

Manufacturer _____

Midmax 25 tons

SECTION 8A, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: _____

\$ _____ EA. X 30 tons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: _____

\$ _____ EA. X 3,000 gallons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: _____

\$ _____ EA. X 90 dry tons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: _____

\$ _____ EA. X 16,300 gallons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: _____

\$ _____ EA. X 34 tons = Total Cost \$ "NO BID"

Manufacturer _____

Min/max 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: _____

\$ _____ EA. X 120 tons = Total Cost \$ ~~"NO BID"~~

Manufacturer _____

Min/max 500 – 3,000 gallons

TO BE STARTED WITHIN 45 CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No x _____

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No _____ X _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter **being** declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, ~~DEFERRED PAY AND RETIREMENTS~~ ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST,

FIRMNAME Fort Bend Services, Inc.

BY (printed): David James

BY (Signature): David James

TITLE: Sales Manage

FEDERAL ID # OR S.S.# 74-2144642

ADDRESS: P.O. Box 1688

Stafford, Texas 77497

PHONENO.: 281-261-5199

FAX NO.: 281-261-2295

CELLULARPHONE/PAGER NO.: J 13-252-3215

LEE COUNTY OCCUPATIONAL LICENSE NUMBER N.A.

E-MAIL ADDRESS: djames@fortbendservices.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your **firm**

PART A: VENDORS PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 4
2. Describe the types **and** amount of equipment you have available to service this contract.

Jar tester, turbidimeter, settleometer, pH meter

3. Describe the types and amount of material stock that you have available to service this contract.

~~Superfloc A130HMW will be shipped direct from manufacturer's location as will the FBS 7802.~~

4. ~~We also stock drums of FBS 7802 in Plant City, Florida.~~
Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes _____ No X _____

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.

Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked.
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided
- 7. All addendum issued, if any, have been acknowledged in the space provided.
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. Any Delivery information required is included.
- 11. The mailing envelope has been addressed to:

| | | |
|--------------------------|----|---|
| MAILING ADDRESS | or | PHYSICAL ADDRESS |
| Lee County Purchasing | | Lee County Purchasing |
| P.O. Box 398 | | 1825 HENDRY STREET, 3 RD FLOOR |
| Ft. Myers, FL 33902-0398 | | Ft. Myers, FL 33901 |
- 12. The mailing envelope **MUST** be sealed and marked with:
Quote Number
Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later than the specified **opening date and time.** (Otherwise quote cannot be considered or accepted.)
- 14. If submitting a "NO BID" please write quote number here _____ and check one of the following:
 Do not offer *this* product Insufficient time to respond.
 Unable to meet specifications (why)
 Unable to meet bond or insurance requirement.
Other: _____

Company Name and Address:
027 BEND SERVICES, INC.
P.O. Box 1688
STAFFORD, TEXAS 77497

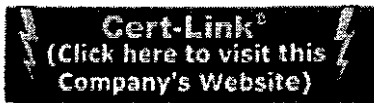
NSF Product and Service Listings

These Listings were Last Updated on **Tuesday, January 06, 2004** at 4:15 AM Eastern Time. Please contact [NSF International](http://www.nsf.org) to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to <http://www.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=cytec&ChemicalName=Polyacrylamide> for the latest most accurate information.

NSF/ANSI STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

CYTEC INDUSTRIES, INC.



5 GARRET MOUNTAIN PLAZA
WEST PATTERSON, NJ 07424
973-357-3100

Facility :# 2 USA

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|-------------------------------|--|----------------|
| Cyanamer A-15 Polyacrylamide | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyanamer P-70 Antiscalant | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyanamer P-71 Antiprecipitant | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyquest 15 Antiprecipitant | Coagulation & Flocculation Sequestering | 1 mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 3 USA

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|---------------------------|----------------------------|----------------|
| Superfloc 1604 Flocculant | Coagulation & Flocculation | 1mg/L |
| Superfloc 1606 Flocculant | Coagulation & Flocculation | 1mg/L |

| | | |
|------------------------------|----------------------------|----------|
| Superfloc 4812 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 4814 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 4816 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 4818 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A1849 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A1883 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc AF 122 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 124 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 126 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 128 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc C-1592 PG | Coagulation & Flocculation | 3.1 mg/L |
| Superfloc C-1598 PG | Coagulation & Flocculation | 2.5 mg/L |
| Superfloc FW101 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW104 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW131 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW132 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW133 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW134 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW201 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc FW205 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc N1986 | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc VX-1604 Flocculant | Coagulation & Flocculation | 1mg/L |
| Superfloc VX-1606 Flocculant | Coagulation & Flocculation | 1mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 4 USA

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|----------------------------|----------------|
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A1849 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A 1883 RSP | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc C-1592 PG | Coagulation & Flocculation | 3.1 mg/L |
| Superfloc C-1598 PG | Coagulation & Flocculation | 2.5 mg/L |
| Superfloc FW101 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW104 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW201 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc FW205 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc N1986 | Coagulation & Flocculation | 3.5 mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 11 USA



Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|----------------------------|----------------|
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AI 849 RS | Coagulation & Flocculation | 3.5mg/L |
| Superfloc A1883 RS | Coagulation & Flocculation | 3.5mg/L |
| Superfloc N 1986 | Coagulation & Flocculation | 3.5mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 14 UNITED KINGDOM**Polyacrylamide[PC]**

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|----------------------------|----------------|
| Superfloc A-100 | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-110 | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-120 | Coagulation & Flocculation | 1mg/L |
| Superfloc A-130 | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-130 HMW | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-836 | Coagulation & Flocculation | 1 mg/L |
| Superfloc C-492 HMW PG | Coagulation & Flocculation | 1mg/L |
| Superfloc C-492 PWG | Coagulation & Flocculation | 1 mg/L |
| Superfloc C-496 PG | Coagulation & Flocculation | 1 mg/L |
| Superfloc N-300 | Coagulation & Flocculation | 1 mg/L |
| Superfloc N-300 LMW | Coagulation & Flocculation | 1 mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Number of matching Manufacturers is 1

Number of matching Products is 55

Processing time was 0 seconds

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CYTEC**MATERIAL SAFETY DATA**

MSDSNo: 06481
 Date: 12/21/1999
 Supersedes: 07/01/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SUPERFLOC® A-130 HMW Flocculant**

SYNONYMS: None

CHEMICAL FAMILY: Anionic polyacrylamide

MOLECULAR FORMULA: Polymer

MOLECULAR WGT: Polymer

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSQN. NEW JERSEY 07424, USA

For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.

EMERGENCY PHONE For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-8001424-9300. Outside the USA and Canada call 1-703/527-3887.

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

| COMPONENT | CAS. NO. | % | TWA/CEILING | REFERENCE |
|-----------|----------|---|-------------|-----------|
|-----------|----------|---|-------------|-----------|

No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

APPEARANCE AND ODOR: Off-white granular solid

STATEMENTS OF HAZARD.

IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY WHEN WET

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be greater than 5.0 g/kg and 2.0 g/kg, respectively. The 4-hour LC50 (rat) value is estimated to be greater 20 mg/L.

Direct contact with this material may cause minimal eye and skin irritation.

4. FIRST AID MEASURES

Material is not expected to be harmful by ingestion. No specific first aid measures are required.

In case of skin contact, wash affected areas of skin with soap and water.

In case of eye contact, immediately irrigate with plenty of water for 15 minutes.

Material is not expected to be harmful if inhaled. If inhaled, remove to fresh air.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASH POINT: Not applicable

FLAMMABLE LIMITS

(% BY VOL): Not applicable

AUTOIGNITION TEMP: <302 F; 150 C

DECOMPOSITION TEMP: <302 F; 150C

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water spray, carbon dioxide or dry chemical to extinguish fires. Use water to keep containers cool. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Spilled material becomes very slippery when wet. Sweep up spills and place in a waste disposal container. Flush the area thoroughly with water and scrub to remove residue. If slipperiness remains, apply more dry-sweeping compound. Do not flush large quantities of the material to sewer.

7. HANDLING AND STORAGE

Spills should be scooped up or wiped up immediately, and the spill area flushed with water.

To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white granular solid

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

SPECIFIC GRAVITY: 0.75-0.95

VAPOR DENSITY: Not applicable

% VOLATILE (BY WT): 10-13; (water)

pH: Not applicable

SATURATION IN AIR (% BY VOL): Not available

EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: Limited by viscosity

VOLATILE ORGANIC CONTENT: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide; carbon monoxide; ammonia; oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the OSHA regulated components of this product is as follows:

This product contains no OSHA regulated (hazardous) components.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause cancer.

12. ECOLOGICAL INFORMATION

No aquatic LC50, BOD, or COD data available.

OCTANOL/H₂O PARTITION COEF.: Not applicable

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Cytec product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this MSDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Cytec encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Cytec recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Cytec has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

| | D.O.T. SHIPPING INFORMATION | IMO SHIPPING INFORMATION |
|------------------------------------|---|-------------------------------------|
| SHIPPING NAME: | NOT APPLICABLE/NOT REGULATED | NOT APPLICABLE/NOT REGULATED |
| HAZARD CLASS/ PACKING GROUP: | Not Applicable | Not Applicable |
| UN NUMBER: | Not Applicable | Not Applicable |
| IMDG PAGE: | Not Applicable | Not Applicable |
| D.O.T. HAZARDOUS SUBSTANCES: | (PRODUCT REPORTABLE QUANTITY) Not Applicable | Not Applicable |

| | | |
|---------------------------|--|---|
| TRANSPORT LABEL REQUIRED: | None Required | None Required |
| SHIPPING NAME: | ICAO/IATA NOT APPLICABLE/NOT REGULATED | TRANSPORT CANADA NOT APPLICABLE/NOT REGULATED |
| HAZARD CLASS: | Not Applicable | Not Applicable |
| SUBSIDIARY CLASS: | Not Applicable | Not Applicable |
| UN/ ID NUMBER: | Not Applicable | Not Applicable |
| PACKING GROUP: | Not Applicable | Not Applicable |
| TRANSPORT LABEL REQUIRED: | None Required | None Required |
| PACKING INSTR: | PASSENGER Not Applicable CARGO Not Applicable | Not Applicable |
| MAX NET QTY: | PASSENGER Not Applicable CARGO Not Applicable | Not Applicable |

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME (N.O.S.): Not Applicable

15. REGULATORY INFORMATION

INVENTORY INFORMATION

- US TSCA: All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act. 15 U. S. C. 2601 et. seq.
- CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List
- EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are polymers of which the components are in EINECS, in compliance with Council Directive 67/548/EEC and its amendments.

OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

| COMPONENT | CAS. NO. | % | TPQ(lbs) | RQ(lbs) | S313 | TSCA 12B |
|--|----------|---|----------|---------|------|----------|
| This product does not contain any components regulated under these sections of the EPA | | | | | | |



PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

Not Applicable under SARA TITLE III

16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association)

| | | |
|------------|---|--|
| Fire | 1 | FIRE: Materials that must be preheated before ignition can occur. |
| Health | 0 | HEALTH: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material. |
| Reactivity | 0 | REACTIVITY: Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water. |
| Special | — | |

REASON FOR ISSUE:

Revised Section 4,5,9 & 10

Randy Deskin, Ph.D., DABT

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.



October 7, 2003

Ms. Kathy Mabry
Fort Bend Services, Inc.
13303 Redfish Lane
Stafford, Texas 11477

RE: Lee County Utilities Water Plants Chemicals
Certification of Approval

Dear Ms. Mabry:

We have received your request to verify that your chemical products can be applied to the water treatment processes for the Lee County Utilities plants here in Lee County. The proposed polymer products by Cytec Industries, Inc. Superfloc A-130HMM polyacrylamide and by SNF Inc. PRP 2449 polyamine are NSF approved for potable water use. It is also understood that the proposed dosages to be applied will not exceed the maximum certified quantities.

The Department will not object to the introduction of these chemicals to the treatment processes with the assumption that these products are equivalent substitutes for the previously used chemicals and that there are adequate equipment previously installed to control the dosages. These products can be applied to the water treatment processes as recommended by the manufacturer immediately unless otherwise noticed. All additives and chemicals used to treat water shall conform with ANSI/NSF Standard 60, and dosage rates shall conform with 40 CFR 141.111 requirements.

Thank you for working with the LCHD. If you have any questions regarding this matter, please do not hesitate to call me or send me e-mail at jerry_ma@doh.state.fl.us.

Sincerely,

Jerry W. Ma, P.E.
Environmental Engineering

cc: Tom Hill



FORT BEND SERVICES, INC.

MAILING ADDRESS
P.O.Box 1688
Stafford, TX 77497
(800) 933-3618 Toll Free



13303 Redfish Lane
Stafford, TX 11411
Office (281) 261-5199
Fax (281) 261-2295

Waste & Water Treatment Specialists

MAY 14,2004

CHEV ONE PET
PURCHASING N
LEE BOARD OF COUNTY COMMISSIONERS
P.O. BOX 398
FORT MEYERS, FL 33902-0398

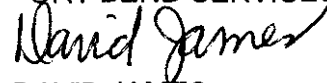
SUBJECT: REPORT OF NON-DEFAULT AND NON-TERMINATION

DEAR CHEVONE:

THIS IS TO INFORM THE LEE COUNTY BOARD OF COUNTY COMMISSIONERS THAT FORT BEND SERVICES, INC. HAS NEVER BEEN TERMINATED FROM ANY CONTRACTS THAT WE HAVE ENTERED NOR HAVE WE DEFAULTED ON ANY CONTRACTS OR AGREEMENTS EVER ENTERED INTO. IF YOU HAVE ANY FURTHER QUESTIONS PLEASE FEEL FREE TO CALL AT ANY TIME.

SINCERELY,

FORT BEND SERVICES, INC.



DAVID JAMES
SALES MANAGER

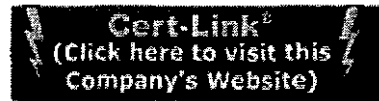
NSF Product and Service Listings

These Listings were Last Updated on Tuesday, **January 06,2004** at 4:15 AM Eastern Time
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NSF/ANSI STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

CYTEC INDUSTRIES, INC.



5 GARRET MOUNTAIN PLAZA
WEST PATTERSON, NJ 07424
973-357-3100

Facility :# 2 USA

Polyacrylamide[PC]

| Trade Designation | Product Function | Max Use |
|-------------------------------|--|---------|
| Cyanamer A-15 Polyacrylamide | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyanamer P-70 Antiscalant | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyanamer P-71 Antiprecipitant | Coagulation & Flocculation Sequestering | 1 mg/L |
| Cyquest 15 Antiprecipitant | Coagulation & Flocculation Sequestering | 1 mg/L |

[PCI Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 3 USA

Polyacrylamide[PC]

| Trade Designation | Product Function | Max Use |
|---------------------------|----------------------------|---------|
| Superfloc 1604 Flocculant | Coagulation & Flocculation | 1mg/L |
| Superfloc 1606 Flocculant | Coagulation & Flocculation | 1mg/L |

| | | |
|-------------------------------|----------------------------|----------|
| Superfloc 4812 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 48 14 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 48 16 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc 4818 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.8 mg/L |
| Superfloc A 1849 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A1883 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc AF 122 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 124 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 126 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc AF 128 Flocculant | Coagulation & Flocculation | 3.5mg/L |
| Superfloc C-1592 PG | Coagulation & Flocculation | 3.1 mg/L |
| Superfloc C-1598 PG | Coagulation & Flocculation | 2.5 mg/L |
| Superfloc FW101 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW104 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW131 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW132 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW133 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW134 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW201 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc FW205 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc N1986 | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc VX-1604 Flocculant | Coagulation & Flocculation | 1mg/L |
| Superfloc VX- 1606 Flocculant | Coagulation & Flocculation | 1mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 4 USA

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|----------------------------|----------------|
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A1849 RS | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc A 1883 RSP | Coagulation & Flocculation | 3.5 mg/L |
| Superfloc C-1592 PG | Coagulation & Flocculation | 3.1 mg/L |
| Superfloc C-1598 PG | Coagulation & Flocculation | 2.5 mg/L |
| Superfloc FW101 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW104 | Coagulation & Flocculation | 3.5mg/L |
| Superfloc FW201 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc FW205 | Coagulation & Flocculation | 2.5mg/L |
| Superfloc N1986 | Coagulation & Flocculation | 3.5 mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 11 USA

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|--------------------------|----------------------------|----------------|
| Superfloc A-1883 LMW | Coagulation & Flocculation | 3.5mg/L |
| Superfloc A1849 RS | Coagulation & Flocculation | 3.5mg/L |
| Superfloc A1883 RS | Coagulation & Flocculation | 3.5mg/L |
| Superfloc N1986 | Coagulation & Flocculation | 3.5mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Facility :# 14 UNITED KINGDOM

Polyacrylamide[PC]

| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
|-----------------------------|----------------------------|----------------|
| Superfloc A-100 | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-1 10 | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-120 | Coagulation & Flocculation | 1mg/L |
| Superfloc A-130 | Coagulation & Flocculation | 1 mg/L |
| <u>Superfloc A-I 30 HMW</u> | Coagulation & Flocculation | 1 mg/L |
| Superfloc A-836 | Coagulation & Flocculation | 1 mg/L |
| Superfloc C-492 HMW PG | Coagulation & Flocculation | 1mg/L |
| Superfloc C-492 PWG | Coagulation & Flocculation | 1 mg/L |
| Superfloc C-496 PG | Coagulation & Flocculation | 1 mg/L |
| Superfloc N-300 | Coagulation & Flocculation | 1 mg/L |
| Superfloc N-300 LMW | Coagulation & Flocculation | 1 mg/L |

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Number of matching Manufacturers is 1
 Number of matching Products is 55
 Processing time was **0** seconds

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CYTEC**MATERIAL SAFETY DATA**

MSDSNo: 06481
 Date: 12/21/1999
 Supersedes: 07/01/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SUPERFLOC® A-130 HMW Flocculant**

SYNONYMS: None

CHEMICAL FAMILY Anionic polyacrylamide

MOLECULAR FORMULA: Polymer

MOLECULARWGT: Polymer

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSON, NEW JERSEY 07424, USA

For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.

EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 1-703/527-3887.

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

| COMPONENT | CAS. NO. | % | TWA/CEILING | REFERENCE |
|--|----------|---|-------------|-----------|
| No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH. | | | | |

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

APPEARANCE AND ODOR: Off-white granular solid

STATEMENTS OF HAZARD:

IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY WHEN WET

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be greater than 5.0 g/kg and 2.0 g/kg, respectively. The 4-hour LC50 (rat) value is estimated to be greater 20 mg/L.

Direct contact with this material may cause minimal eye and skin irritation.

4. FIRST AID MEASURES

Material is not expected to be harmful by ingestion. No specific first aid measures are required.

In case of skin contact, wash affected areas of skin with soap and water.

In case of eye contact, immediately irrigate with plenty of water for 15 minutes.

Material is not expected to be harmful if inhaled. If inhaled, remove to fresh air.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASH POINT: Not applicable

FLAMMABLE LIMITS

(% BY VOL): Not applicable

AUTOIGNITION TEMP: <302 F; 150 C

DECOMPOSITION TEMP: <302 F; 150C

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water spray, carbon dioxide or dry chemical to extinguish fires. Use water to keep containers cool. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Spilled material becomes very slippery when wet. Sweep up spills and place in a waste disposal container. Flush the area thoroughly with water and scrub to remove residue. If slipperiness remains, apply more dry-sweeping compound. Do not flush large quantities of the material to sewer.

7. HANDLING AND STORAGE

Spills should be scooped up or wiped up immediately, and the spill area flushed with water.

To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white granular solid

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

SPECIFIC GRAVITY: 0.75-0.95

VAPOR DENSITY: Not applicable

%VOLATILE (BY WT): 10-13; (water)

pH: Not applicable

SATURATION IN AIR (% BY VOL): Not available

EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: Limited by viscosity

VOLATILE ORGANIC CONTENT: Not available

10. STABILITY AND REACTIVITY**STABILITY:** Stable**CONDITIONS TO AVOID:** None known

POLYMERIZATION: Will Not Occur

* -

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide; carbon monoxide; ammonia; oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the OSHA regulated components of this product is as follows:

This product contains no OSHA regulated (hazardous) components.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause cancer.

12. ECOLOGICAL INFORMATION

No aquatic LC50, BOD, or COD data available

OCTANOL/H₂O PARTITION COEF.: Not applicable

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Cytec product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this MSDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Cytec encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Cytec recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Cytec has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

| | D.O.T. SHIPPING INFORMATION | IMO SHIPPING INFORMATION |
|------------------------------------|---|-------------------------------------|
| SHIPPING NAME: | NOT APPLICABLE | NOT APPLICABLE |
| HAZARD CLASS/ PACKING GROUP: | Not Applicable | Not Applicable |
| UN NUMBER: | Not Applicable | Not Applicable |
| IMDG PAGE: | Not Applicable | Not Applicable |
| D.O.T. HAZARDOUS SUBSTANCES: | (PRODUCT REPORTABLE QUANTITY) Not Applicable | Not Applicable |

| | | |
|---------------------------|--|---|
| TRANSPORT LABEL REQUIRED: | None Required | None Required |
| SHIPPING NAME: | ICAO/IATA NOT APPLICABLE/NOT REGULATED | TRANSPORT CANADA NOT APPLICABLE/NOT REGULATED |
| HAZARD CLASS: | Not Applicable | Not Applicable |
| SUBSIDIARY CLASS: | Not Applicable | Not Applicable |
| UN/ ID NUMBER: | Not Applicable | Not Applicable |
| PACKING GROUP: | Not Applicable | Not Applicable |
| TRANSPORT LABEL REQUIRED: | None Required | None Required |
| PACKING INSTR: | PASSENGER Not Applicable CARGO Not Applicable | Not Applicable |
| MAX NET QTY: | PASSENGER Not Applicable CARGO Not Applicable | Not Applicable |

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME (N.O.S.): Not Applicable

15. REGULATORY INFORMATION

INVENTORY INFORMATION

US TSCA: All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.

CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are polymers of which the components are in EINECS. in compliance with Council Directive 67/548/EEC and its amendments.

OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

| COMPONENT | CAS. NO. | % | TPQ(lbs) | RQ(lbs) | S313 | TSCA 12B |
|--|----------|---|----------|---------|------|----------|
| This product does not contain any components regulated under these sections of the EPA | | | | | | |

| | |
|---------------------------|---------------|
| CLASSIFICATION UNDER | N 311 OF SARA |
| Not Applicable under SARA | |

16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association)

| | | |
|------------|---|---|
| Fire | 1 | FIRE: Materials that must be preheated before ignition can occur. |
| Health | 0 | HEALTH: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material. |
| Reactivity | 0 | REACTIVIN: Materials which in themselves are normally stable, even under tire exposure conditions, and which are not reactive with water. |
| Special | — | |

REASON FOR ISSUE:

Revised Section 4,5,9 & 10

Randy Deskin, Ph.D., DABT

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration. investigation and verification. Before using any product, read its label.

Jeb Bush
Governor



John O. Agwunobi MD, MBA.
Secretary

October 7, 2003

Ms. Kathy Mabry
Fort Bend Services, Inc.
13303 Redfish Lane
Stafford, Texas 11411

RE: Lee County Utilities Water Plants Chemicals
Certification of Approval

Dear Ms. Mabry:

We have received your request to verify that **your** chemical product can be applied to the water treatment processes for the Lee County Utilities plants here in Lee County. The proposed polymer products by Cytec Industries, Inc. Superfloc A-130HMW polyacrylamide and by SNF Inc. PRP **2449** polyamine are NSF approved for potable water use. It is also understood that the proposed dosages to be applied will not exceed the maximum certified quantities.

The Department will not object to the introduction of these chemicals to the treatment processes with the assumption that these products are equivalent substitutes for the previously used chemicals and that there are adequate equipment previously installed to control the dosages. These products can be applied to the water treatment processes as recommended by the manufacturer immediately unless otherwise noticed. All additives and chemicals used to treat water shall conform with ANSI/NSF Standard 60, and dosage rates shall conform with 40 CFR **141.111** requirements.

Thank you for working with the LCHD. If you have any questions regarding this matter, please do not hesitate to call me or send me e-mail at jerry_ma@doh.state.fl.us.

Sincerely,

Jerry W. Ma, P.E.
Environmental Engineering

cc: Tom Hill



LEE COUNTY HEALTH DEPARTMENT
Judith Hartner, M.D., M.P.H.
Director

REPLY TO **Environmental Engineering**
60 Danley Drive, Unit #1
(941) 939-4245 Ft Myers, Florida 33907

FORT BEND SERVICES, INC.

MAILING ADDRESS
P.O. Box 1688
Stafford, TX 77491
(800) 933-3678 Toll Free



13303 Redfish Lane
Stafford, TX 11417
Office (281) 261-5199
Fax (281) 261-2295

Waste & Water Treatment Specialists

MAY 14, 2004

CHEVONE PETERSON
PURCHASING DIVISION
LEE COUNTY BOARD OF COUNTY COMMISSIONERS
P.O. BOX 39%
FORT MEYERS, FL 33902-0398

SUBJECT: REPORT OF NON-DEFAULT AND NON-TERMINATION

DEAR CHEVONE:

THIS IS TO INFORM THE LEE COUNTY BOARD OF COUNTY COMMISSIONERS THAT FORT BEND SERVICES, INC. HAS NEVER BEEN TERMINATED FROM ANY CONTRACTS THAT WE HAVE ENTERED NOR HAVE WE DEFAULTED ON ANY CONTRACTS OR AGREEMENTS EVER ENTERED INTO. IF YOU HAVE ANY FURTHER QUESTIONS PLEASE FEEL FREE TO CALL AT ANY TIME.

SINCERELY,

FORT BEND SERVICES, INC

DAVID JAMES
SALES MANAGER

9

FORMAL QUOTATION NO.: Q-040296

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: May 14, 2004

VENDOR NAME: Ciba Specialty Chemicals Corporation

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers: N/A

GRAND TOTAL (ALL SECTIONS): \$ _____

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO X _____

NOTE: it shall include firm delivered prices with all quantities ranges F.O.B.. Lee County Florida to the deli locations as d

SECTION 1, ALUMINUM SULFATE

Sp f name: NO BID

\$ _____ EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: NO BID

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: NO BID

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____

Midmax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: NO BID

\$ _____ EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons

SECTION 5, POLYMER

Specify product name: NO BID

\$ _____ EA. X 16,400 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2154G or equal**

Min/max 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: NO BID

\$ _____ EA. X 600 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2244G or equal**

Midmax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: Ciba® ZETAG® 8848FS (formerly named Zetag® 7848)
LB.
\$ 0.67 EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ 33,500.00

Manufacturer Ciba Specialty Chemicals Corporation **Ciha Specialty Chemicals Zetag 7848 or equal**

Midmax – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: NO BID
\$ _____ EA. X **70,000** lbs = Total Cost \$ _____

Manufacturer _____ **Shannon SNC-RS2 or equal**

Midmax 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: NO BID
\$ _____ EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer _____

Midmax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: NO BID
\$ _____ EA. X 5,491 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons



SECTION 8A, QUICKLIME, (FOUNDRY size: -318 x 1/16)

Specify product name: NO BID

\$ _____ EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: NO BID

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Midmax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: NO BID

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: NO BID

\$ _____ EA. X 16,300 gallons = Total Cost \$ _____

Manufacturer _____

Min/max 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: NO BID

\$ _____ EA. X 34 tons = Total Cost \$ _____

Manufacturer _____

Min/max 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: NO BID

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 – 3,000 gallons

TO BE STARTED WITHIN 3-5 CALENDAR DAYS AFTER RECEIPT OF **AWARD** AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No (Not Applicable)

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

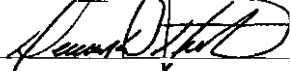
Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the county.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER _____ OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRMNAME Ciba Specialty Chemicals Corporation

BY (Printed): Dewey W. Hunter

BY (Signature):  _____

TITLE Business Manager

FEDERAL ID # OR S.S.# 13-3904291

ADDRESS: 2301 Wilroy Road, P.O. Box 820
Suffolk, VA 23439-0820

PHONE NO.: (757) 538-3700

FAX NO.: (757) 538-5007

CELLULAR PHONE/PAGER NO.: (678) 525-2109 Sam Jackson, Senior Technical Sales Representativ

LEE COUNTY OCCUPATIONAL LICENSE NUMBER: _____

E-MAIL ADDRESS: dewey.hunter@cibasc.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)
(NOT APPLICABLE)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDORS PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is **the** size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? _____
2. Describe the **types** and amount of equipment you have available to service this contract.

3. Describe the types and amount of material stock that you have available to service this contract.

4. Have you provided goods or services to Lee County **on** a regular basis for the preceding, consecutive five years?

Yes _____ No _____

If yes, please provide your contractual history with Lee County for *the* past five, consecutive years. Attach additional pages if necessary.

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.
Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed
- 3. The price extensions and totals have been checked
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- N/A 6. All modifications have been acknowledged in the space provided
- N/A 7. All addendum issued, if any, have been acknowledged in the space provided.
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- N/A 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. Any Delivery information required is included.
- 11. The mailing envelope has been addressed to:

| | |
|--------------------------------------|---|
| MAILING ADDRESS | PHYSICAL ADDRESS |
| Lee County Purchasing | Lee County Purchasing |
| P.O. Box 398 or | 1825 HENDRY STREET, 3 RD FLOOR |
| Ft. Myers, FL 33902-0398 | Ft. Myers, FL 33901 |
- 12. The mailing envelope **MUST** be sealed and marked with:
Quote Number
Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
- N/A 14. If submitting a "NO BID" please write quote number here _____ and check one of the following:
_____ Do not offer this product _____ insufficient time to respond.
_____ Unable to meet specifications (why)
_____ Unable to meet bond or insurance requirement.
Other: _____

Company Name and Address:
Ciba Specialty Chemicals Corporation
2301 Wilroy Road, P.O. Box 820
Suffolk, VA 23439-0820



May 14, 2004

LEE COUNTY
BOARD OF COUNTY COMMISSIONERS
Division of Purchasing
1825 Hendry Street
3rd Floor
Fort Myers, FL 33901

RE: SEALED QUOTE Q-040296, ANNUAL PURCHASE OF ADDITIONAL
CHEMICALS FOR UTILITIES, OPEN DATE: MAY 18, 2004, 2:30 PM

Dear Sir:

Ciba® ZETAGB 7848 was recently renamed to Ciba® ZETAGB 8848FS.
Chemically, Zetag® 7848 is identical to Zetag® 8848FS as there have been no
changes made to our formulation; only the name was changed. Zetag® 8848FS
will perform exactly the same as Zetag® 7848.

Zetag® 8848FS is manufactured at our facility in Suffolk, Virginia.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Dewey W. Hunter", written over a white rectangular area.

Dewey W. Hunter
Business Manager

DWH/jsg

Ciba® ZETAG™ 8848FS Flocculant

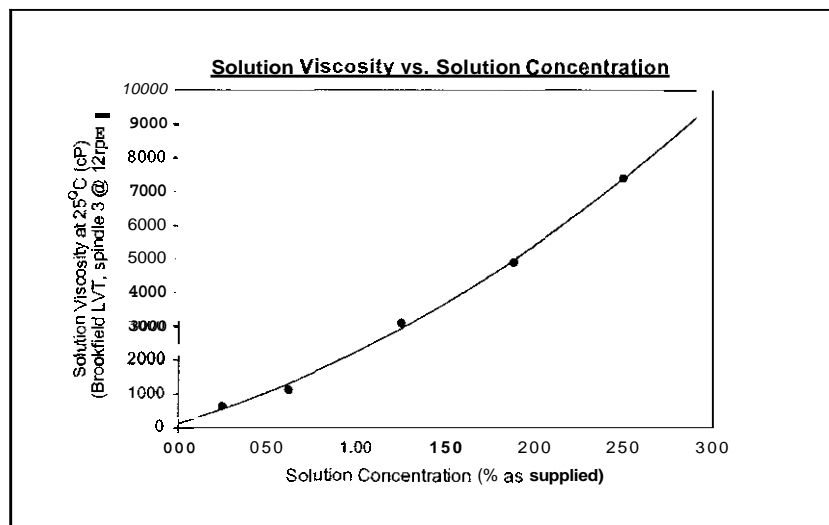
Cationic Emulsion Grade Polymer

Description ZETAG 8848FS is a medium molecular weight, polyacrylamide based flocculant which exhibits a very high degree of cationic charge. ZETAG 8848FS, once inverted and hydrated in water, reacts readily to provide superior floc formation and performance in a variety of solids/liquid separation processes. ZETAG 8848FS is supplied in a liquid emulsion form,

Principal Uses ZETAG 8848FS has been designed as a flocculant for a variety of municipal and industrial waste substrates. It has been proven especially effective for conditioning these substrates for solids sedimentation, thickening, and dewatering.

ZETAG 8848FS offers greatly improved solids/liquid separation efficiencies over a wide range of pH and is available in a variety of packaging for ease of handling and safety.

| | | |
|---------------------------|--------------------------------------|---|
| Typical Properties | Appearance | cloudy, near colorless liquid |
| | Solids Content | 40% |
| | Particle Size | 10% > 1.1µm, 50% > 0.9µm, and 90% > 0.7µm |
| | Specific Gravity | 1.03 |
| | Solution pH | 3.5-5.5 |
| | Flash Point | >200°F (93°C) - product not combustible |
| | Viscosity of Supplied Product | 970cP (LVT, spindle #2 @ 12rpm) |
| | Solution Viscosity | See graph below |





Material Safety Data Sheet

OSHA / ANSI 2003 Compliant

MSDS date: 05-Feb-2004

NFPA Ratina: Health: 1 Flammability: 1 Instability: 0 Special Hazards: -
HMS Ratina: Health: 1 Flammability: 1 Physical Hazard: 0 Personal Protection: B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ZETAG 8848FS
Product Number: 2469654
Chemical Family: Cationic Polyacrylamide Emulsion
Intended Use: Flocculant
Manufacturer/Supplier: Ciba Specialty Chemicals Corporation
2301 Wilroy Road
Suffolk, VA 23434
8:30am - 5pm Phone Number: 1-757-538-3700
MSDS Request Line (voicemail): 1-800-431-2360
Customer Service/Product Information 1-800-322-3885

Emergency 24-Hour Health/Environmental Phone: 1-800-873-1138

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Signal Word: CAUTION!
Physical Form: Liquid Dispersion
Color: Colorless to White
Odor: Petroleum
Health: Corrosive to eyes. Contains petroleum distillates. Vapors may cause eye, skin, and/or respiratory tract irritation, headaches, dizziness, and central nervous system effects. Aspiration of liquid into the respiratory system may cause bronchopneumonia or pulmonary edema.. Direct or prolonged exposure to this product may cause skin irritation, which may be seen as redness and dermatitis. It is not expected to cause allergic skin reactions. .

physical Hazards: Slip hazard when wet.

OSHA Hazardous Substance: This material is classified as hazardous under OSHA regulations

Primary Route(s) of Entry: Ingestion, Skin, Inhalation, Eyes

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS Number | Weight % |
|--|------------|---------------|
| Hexanedioic acid | 124-04-9 | 0.88 - 0.98 |
| DISTILLATES, PETROLEUM, HYDROTREATED LIGHT | 64742-47-8 | 25.66 - 26.06 |
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide | 69418-26-4 | 39 - 41 |
| Alcohols, C12-14-secondary, ethoxylated | 84133-50-6 | 1.77 - 2.17 |

4 FIRST AID MEASURES

Eyes: Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get medical attention.

Skin: Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs. If clothing is contaminated, remove and launder before reuse.

Inhalation: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire Fighting Measures: Standard procedure for chemical fires.

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam or water spray.

Fire Fighting Equipment: Wear self-contained breathing apparatus and protective suit.

Unusual hazards: The product is slippery when wet.

Hazardous Combustion Products: Burning may produce oxides of carbon or nitrogen

6 ACCIDENTAL RELEASE MEASURES

Cleanup Instructions: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wear suitable protective equipment. Should not be released into the environment. Spills are very slippery.

7 HANDLING AND STORAGE

Handling: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Storage: Keep containers tightly closed in a cool, well-ventilated place. Avoid extremes of temperature.

For Industrial Use Only**8 EXPOSURE CONTROLS/ PERSONAL PROTECTION****Exposure Guidelines:**

| Components | OSHA PEL | OSHA STEL | ACGIH TWA | ACGIH STEL | Ciba/ Manufacturer IEL: |
|---|----------|-----------|-----------------------|------------|-------------------------------|
| Hexanedioic acid 124-04-9 | | | 5 mg/m ³ | | |
| DISTILLATES, PETROLEUM, HYDROTREATED LIGHT 64742-47-8 | | | 200 mg/m ³ | | |

Personal Protective Equipment

| | |
|------------------------------------|--|
| Eye/Face Protection: | Wear splash proof chemical goggles. |
| Skin Protection: | Wear chemical resistant gloves and protective clothing. |
| Respiratory Protection: | Use NIOSH approved respirator where there is a likelihood of inhalation of the product mist. |
| Engineering Controls: | Work in well ventilated areas. Do not breathe vapors or mist. Local exhaust recommended. |
| Other Protective Equipment: | Eye wash station and safety shower should be available in immediate work area Select additional protective equipment based upon potential for exposure. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------|
| Physical Form: | Liquid Dispersion |
| Color: | Colorless to White |
| Odor: | Petroleum |
| Boiling Point: | Not determined |
| Freezing/Melting Point: | Not determined |
| Solubility in water: | Dispersible |
| Vapor Density: | Not determined |
| Vapor Pressure: | Not determined |
| Specific Gravity: | 1.03 |
| pH: | Not determined |
| Percent Volatile: | Not determined |
| VOC: | Not determined |
| Partition Coefficient (Octanol/Water): | Not determined |
| Autoignition Temperature: | Not determined |
| Decomposition Temperature: | Not determined |
| Flammability Limits in Air: | |
| Upper | Not determined |
| Lower | Not determined |
| Flash point: | > 93 °C (200°F) |
| Test Method (for Flash Point): | PMCC |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|--|
| Stability: | Stable. |
| Conditions to Avoid: | Avoid temperature extremes. Avoid static discharges and sources of ignition. |
| Incompatibility: | Strong oxidizing agents. |
| Hazardous Decomposition Products: | No decomposition expected under normal storage conditions. |
| Possibility of Hazardous Reactions: | None expected. |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute Oral Toxicity: | Not determined |
| Acute Dermal Toxicity: | Not determined |
| Acute Inhalation Toxicity: | Not determined |
| Eye Irritation: | (Rabbits) Corrosive |
| Skin Irritation: | The product has not been evaluated; however, it may cause skin irritation |
| Skin Sensitization: | Not determined |
| Carcinogenicity (IARC; NTP; OSHA; ACGIH): | None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen. |
| Carcinogenicity Studies: | Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH. |
| Mutagenicity: | Not determined |
| Reproductive Toxicity: | Not determined |
| Teratogenicity: | Not determined |
| Neurotoxicity: | Not determined |
| Subacute Toxicity: | Not determined |
| Subchronic Toxicity: | Not determined |
| Chronic toxicity: | Not determined |
| Absorption ■ Distribution ■ Excretion ■ Metabolism: | Not determined |
| Additional Information: | Not determined |

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Toxicity to Fish: | LC50 18 mg/L 96 hour (Rainbow trout) (under static conditions in the presence of humic acid) |
| Toxicity to Invertebrates: | EC50 12 mg/L 48 hour (Daphnia magna) (under static conditions in the presence of humic acid) NOEC < 3.1 mg/L (Daphnia magna) |
| Toxicity to Algae: | Not determined |
| Toxicity to Sewage Bacteria: | Not determined |
| Activated Sludge Respiration Inhibition Test: | Not determined |
| Biochemical Oxygen Demand (BOD): | Not determined |
| Chemical Oxygen Demand (COD): | Not determined |
| Total Oxygen Demand (TOD): | Not determined |
| Biodegradability: | Not determined |
| Bioaccumulation: | Not determined |
| Additional Environmental Data: | Not determined |

3. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state, provincial and federal regulations

4. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):

Not regulated for this mode of transport

DOT (Bulk) Oil Statement:

This product is considered to be an oil per the definitions in 49 CFR 130.2. If packed in a container with a capacity of 3,500 gallons or more, the Communication Requirements at 49 CFR 130.11 and the Response Plan Requirements at 49 CFR 130.31 and 130.33 apply to Domestic transportation by motor vehicles and rolling stock.

Notification of releases to the National Response Center (NRC), 800-424-8802, may be necessary. In the Washington, DC metropolitan area, call 202-426-2675.

International Maritime Dangerous Goods (IMDG):

Not regulated for this mode of transport.

International Air Transportation Authority (IATA):

Not regulated for this mode of transport.

15 REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Substance: This material is classified as hazardous under OSHA regulations

Clean Air Act - Hazardous Air Pollutants (HAP): This product contains the following Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section **112 (40CFR 61)**.

| Components | CAA Section 112 Statutory Hazardous Air Pollutants |
|--------------------------|--|
| 2-propenamide 79-06-1 | Listed. |

Clean Air Act - Volatile Organic Compounds (VOC): This product contains the following SOCM Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40CFR 60.489).

| Components | CAA Section 111 Volatile Organic Compounds |
|--|--|
| Hexanedioic acid 124-04-9 | Listed. |
| Poly(oxy-1,2-ethanediyl), .alpha.-hydro- .omega.-hydroxy- 25322-68-3 | Listed. |
| 2-Propanol 67-63-0 | Listed. |
| 2-propenamide 79-06-1 | Listed. |

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40CFR 401.15).

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40CFR 261.21).

SARA Section 302 Extremely Hazardous Substances (EHS): This product contains the following component(s) regulated under Section 302 (40CFR 355) as Extremely Hazardous Substances.

| Components | Section 302 Extremely Hazardous Substances (EHS) |
|--------------------------------|--|
| 2-propenamide 79-06-1 (0 %) | Listed. |

SARA Section 304 CERCLA Hazardous Substances: This product contains the following component(s) regulated under Section 304 (40CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

| Components | Section 304 CERCLA Hazardous Substances | CERCLA Reportable Quantity |
|--|---|----------------------------|
| Hexanedioic acid 124-04-9 (0.88 - 0.98 %) | Listed. | 5000 LBS |
| 2-propenamide 79-06-1 (0 %) | Listed. | 5000 LBS |

SARA Section 3111312 Hazard Communication Standard (HCS): Acute (immediate) health hazard.

SARA Section 313 Toxic Chemical List (TCL): The following component(s) are listed on the Section 313 Toxic Chemical List.

| Components | Weight % | Section 313 Status |
|--------------------------|----------|--------------------|
| -Propanol 67-63-0 | 0 | Listed. |
| 2-propenamide 79-06-1 | 0 | Listed. |

TSCA Section 8(b) Inventory Status: All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

TSCA Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR)

TSCA Section 5(f): This product is not subject to a Section 5(f)/6(a) rule

TSCA Section 12(b) Export Notification: This product does not contain any component(s) that are subject to a Section 12(b) Export Notification

State Reaulations

California Proposition 65: This product contains the following component(s) currently on the California list of Known Carcinogens and Reproductive Toxins.

| Components | California Proposition 65 |
|--------------------------|---------------------------|
| 2-propenamide 79-06-1 | Carcinogenic. |

Pennsylvania Right-To-Know: This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

| Components | CAS Number | Pennsylvania Right-to-Know |
|--|------------|----------------------------------|
| Hexanedioic acid | 124-04-9 | Listed. Environmental hazard. |
| DISTILLATES, PETROLEUM, HYDROTREATED LIGHT | 64742-47-8 | Not Listed. |
| 2-Propanol | 67-63-0 | Listed. Environmental hazard. |
| Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide | 69418-26-4 | Not Listed. |
| Water | 7732-18-5 | Not Listed. |
| 2-propenamide | 79-06-1 | Listed. Environmental hazard. |

International Reaulations

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Domestic Substance List (DSL) Status: All components are listed on the DSL

6. OTHER INFORMATION

Reason for revision: New MSDS format

Product Safety & Regulatory (PSBR) contact: Karin Baron (757) 538-5126

Disclaimer: The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.

FORMAL QUOTATION NO.: Q-040296

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: 5/13/04

VENDOR NAME: CalciQuest, Inc.

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers: N/A

GRAND TOTAL (ALL SECTIONS): \$ 121,180

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO X

NOTE: Prices shall include firm delivered prices within the minimum/maximum quantity ranges F.O.B.. Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: No Bid

\$ _____ EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: NO BID

\$ _____ EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: NO BID

\$ _____ EA. X 8,650 lbs. (100#) pails = Total Cost \$ _____

Midmax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: NO BID

\$ _____ EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons

SECTION 5, POLYMER

Specify product name: Calcifloc 2154G

\$ 1.14 EA. X 16,400 lbs = Total Cost \$ 18,696

Manufacturer CalciQuest Inc. Calciquest 2154G or equal

Minimax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: Calcifloc 2244G

\$ 1.14 EA. X 600 lbs = Total Cost \$ 684.00

Manufacturer CalciQuest Inc. Calciquest 2244G or equal

Midmax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: Poly Pro 4941

\$ 1.28 lb. EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ 64,000

Manufacturer CalciQuist, Inc **Ciba Specialty Chemicals Zetag 7848 or equal**

Midmax - four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: CalciQuist Dry

\$ 0.54 EA. X 70,000 lbs = Total Cost \$ 37,800

Manufacturer CalciQuist, Inc. **Shannon SNC-RS2 or equal**

Midmax 2,000 - 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: No BID

\$ _____ EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer _____

Min/max 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: No DID

\$ _____ EA. X 5,491 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 tons

SECTION SA, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: NO BID

\$ _____ EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: NO BID

\$ _____ EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Midmax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: NO BID

\$ _____ EA. X 90 dry tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: NO BID

\$ _____ EA. X 16,300 gallons = Total Cost \$ _____

Manufacturer _____

Minimax 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: No BID

\$ _____ EA. X 34 tons = Total Cost \$ _____

Manufacturer _____

Midmax 2 - 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: No BID

\$ _____ EA. X 120 tons = Total Cost \$ _____

Manufacturer _____

Min/max 500 - 3,000 gallons

TO BE STARTED WITHIN _____ CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is **your** firm interested in being considered for **the** Local Vendor Preference?

Yes _____ No X

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with **your** quotation.

Quoters should carefully read all the terms and conditions **of** the specifications. Any representation **of** deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, **on** County's Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTICOLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME Calciquest, Inc.

BY (Printed): JOHN W. LITTLE

BY (Signature): John W. Little

TITLE: PRESIDENT

FEDERAL ID # OR S.S.# 56-1763670

ADDRESS: 181 Woodlawn Avenue

Belmont, NC 28012

PHONE NO.: 704-822-1441

FAX NO.: 704-822-0922

CELLULAR PHONE/PAGER NO.: 704-904-9510

LEE COUNTY OCCUPATIONAL LICENSE NUMBER. 030539

E-MAIL ADDRESS: calciquest@carolina.rr.com

REVISED: 7/28/00



Thursday, May 13, 2004

Specialist in
Water Treatment



181 Woodlawn Ave.
Belmont, NC
28012

b

704-822-1441
Fax: 704-822-0922



Lee County Board of County Commissioners
Division of Purchasing
Attn: Ms. Chevonne Peterson
1825 Hendry Street, 3rd Floor
Fort Myers, FL 33901

Dear Ms. Peterson:

CalciQuest, Inc. appreciates the opportunity to bid on your annual chemicals need reference your quote number **Q-040296**.

Our pricing to you is listed on the pricing sheets included within the bid package.

I have attached product data sheets, a National Sanitation Foundation (NSF) certification, and Material Safety Data Sheets for your review.

CalciQuest Inc. is in compliance with your bid specifications and agrees to abide by these specifications. We agree to conform to any and all State and Federal regulations pertaining to chemicals, and to assist Lee County in doing so reference (Chapter **442 F.S.**).

There have been no accidents or spills reported nor have there been any contracts terminated for the past five years at CalciQuest, Inc.

This offer is valid for a one year period with an option to renew the contract for four additional one-year periods, subject to the approval of both parties.

Thank you for your consideration on this bid. If you have any questions or need additional information, please contact me at **1-800-929-6789**.

Sincerely,

John W. Little
President

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your *firm*

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 5
2. Describe the **types** and amount of equipment you have available to service this contract.

Phipps and Bind Six Gang Stirrer

3. Describe the types and amount of material stock that you have available to service **this** contract.

20 000 lbs. Dry Polymer

4. Have **you** provided goods or services **to** Lee **County** on a regular basis **for** the preceding, consecutive five years?

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

FORMAL QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.

Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked.
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided.
- 7. All addendums issued, if any, have been acknowledged in the space provided
- 8. **Ensures** or other changes made to the quote document have been initialed by the person signing the quote.
- 9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. **Any** Delivery information required is included.
- 11. The mailing envelope has been addressed to:

| | |
|--------------------------|---|
| MAILING ADDRESS | PHYSICAL ADDRESS |
| Lee County Purchasing | Lee County Purchasing |
| P.O. Box 398 or | 1825 HENDRY STREET, 3 RD FLOOR |
| Ft. Myers, FL 33902-0398 | Ft. Myers, FL 33901 |
- 12. The mailing envelope **MUST** be sealed and marked with:
 - Quote Number
 - Opening Date and/or Receiving Date
- 13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
- 14. If submitting a "NO BID" please write quote number here _____ and check one of the following:
 - Do not offer this product Insufficient time to respond.
 - Unable to meet specifications (why)
 - Unable to meet bond or insurance requirement.
 - Other: _____

Company Name and Address:

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/10/2004

PRODUCER (973) 227-0025 FAX (973) 227-4026
The Chadler Group, Inc.
330 Passaic Ave
Ste 200
Fairfield, NJ 07004

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

MAY 12 2004

| | | |
|---|--|--------|
| INSURED CALCI QUEST INC 181 WOODLAWN AVE BELMONT, NC 28012 | INSURERS AFFORDING COVERAGE | NAIC # |
| | INSURER A: ROYAL INDEMNITY INS CO A+ XIV | |
| | INSURER B: | |
| | INSURER C: | |
| | INSURER D: | |
| | INSURER E: | |

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR ADD'L LTR INSR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|---------------------|---|--|----------------------------------|-----------------------------------|---|
| A | GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL LIAB <input checked="" type="checkbox"/> PRODUCT POLLUTION GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC | R2SP244732 LIABILITY -INCLUDED | 09/15/2003 | 09/15/2004 | EACH OCCURRENCE \$ 1,000,000 |
| | DAMAGE TO RENTED PREMISES (EA OCCURRENCE) \$ 100,000 | | | | |
| | MED U P (Any one person) \$ 5,00 | | | | |
| | PERSONAL & ADV INJURY \$ 1,000,000 | | | | |
| | GENERAL AGGREGATE \$ 2,000,000 | | | | |
| | PRODUCTS - COMP/OP AGG \$ 2,000,000 | | | | |
| A | AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALLOWNEO AUTOS <input type="checkbox"/> SCHEOULEO AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS | R2ST418721 | 09/15/2003 | 09/15/2004 | COMBINED SINGLE LIMIT (EA ACCIDENT) \$ 1,000,000 |
| | BODILY INJURY (Per person) \$ | | | | |
| | BODILY INJURY (Per accident) \$ | | | | |
| | PROPERTY DAMAGE (Per accident) \$ | | | | |
| | GARAGE LIABILITY <input type="checkbox"/> ANY AUTO | | | | AUTO ONLY - EA ACCIDENT \$ |
| | | | | | OTHER THAN EA ACC \$ |
| | | | | | AUTO ONLY AGG \$ |
| A | EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE RETENTION \$ | P2LA438426 SELF INSURED RETENTION SHALL BE NO MORE THAN \$10,000 LIMIT | 09/15/2003 | 09/15/2004 | EACH OCCURRENCE \$ 5,000,000 |
| | AGGREGATE \$ 5,000,000 | | | | |
| | \$ | | | | |
| | \$ | | | | |
| | \$ | | | | |
| A | WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below | | | | W/C STATUTORY LIMITS OTH-ER |
| | | | | | E.L. EACH ACCIDENT \$ |
| | | | | | E.L. DISEASE - EA EMPLOYEE \$ |
| | | | | | E.L. DISEASE - POLICY LIMIT \$ |
| A | OTHER PROPERTY | R2SP244732 | 09/15/2003 | 09/15/2004 | CHARLOTTE, NC LOCATION \$25,000 CONTENTS \$1,000 DED |
| | | | | | |

DESCRIPTION OF OPERATIONS LOCATIONS VEHICLES EXCLUSIONS ADDED BY ENDORSEMENT SPECIAL PROVISIONS
Fax # (908) 534-5546

Lee County Board of Commissioners
1825 Hendry Street
3rd Floor
Ft. Meyers, FL 33901

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL **10** DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES

AUTHORIZED REPRESENTATIVE
Donna Grotz/DONNAG

Donna A Grotz

PRODUCER
nauff Insurance, Inc.
 P.O. Box 33789
 Charlotte NC 28233-3789
 Phone : 704-375-8000

MAY 12 2004

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND-OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Calci Quest, Inc.
 Attn: John Walsh
 181 Woodlawn Avenue
 Belmont NC 28012

| INSURERS AFFORDING COVERAGE | | NAIC # |
|-----------------------------|-----------------------------------|--------|
| INSURER A: | Key Risk Insurance Company | |
| INSURER B: | | |
| INSURER C: | | |
| INSURER D: | | |
| INSURER E: | | |

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH

| SR ADD'L TR NSRD | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | |
|------------------|---|-----------------|----------------------------------|-----------------------------------|---|---------------------|
| | GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC | | | | EACH OCCURRENCE | \$ |
| | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | \$ |
| | | | | | MED EXP (Any one person) | \$ |
| | | | | | PERSONAL & ADV INJURY | \$ |
| | | | | | GENERAL AGGREGATE | \$ |
| | | | | | PRODUCTS - COMP/OP AGG | \$ |
| | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS | | | | COMBINED SINGLE LIMIT (Ea accident) | \$ |
| | | | | | BODILY INJURY (Per person) | \$ |
| | | | | | BODILY INJURY (Per accident) | \$ |
| | | | | | PROPERTY DAMAGE (Per accident) | \$ |
| | GARAGE LIABILITY <input type="checkbox"/> ANY AUTO | | | | AUTO ONLY - EA ACCIDENT | \$ |
| | | | | | OTHER THAN AUTO ONLY | EA ACC \$ AGG \$ |
| | EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$ | | | | EACH OCCURRENCE | \$ |
| | | | | | AGGREGATE | \$ |
| | | | | | | \$ |
| | | | | | | \$ |
| | | | | | | \$ |
| A | WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/ MEMBER EXCLUDED? If es, describe under | 900000002622103 | 10/28/03 | 10/28/04 | <input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER | |
| | | | | | E L EACH ACCIDENT | \$ 500000 |
| | | | | | E L DISEASE-EA EMPLOYEE | \$ 500000 |
| | | | | | E L DISEASE - POLICY LIMIT | \$ 500000 |

LEEECTYB

Lee County Board of Commissioners
 1825 Hendry Street, 3rd Floor
 Fort Myers FL 33901

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES

AUTHORIZED REPRESENTATIVE

April Smith

April Smith



Specialist in
Water Treatment

The intent of this letter is to outline the CalciQuest, Inc. training session in the event we are awarded the bid.

b

The instructor shall be a CalciQuest employee with no less than four years experience in the safe handling practice associated with polymer. Two, four hour training sessions will be supplied to Naples personnel each year the bid is in effect.

1E7 Woodlawn Ave.
Belmont, NC
28012

Suggested training outline is as follows:



I. Polymer introduction (1/2 hour)

704-822-1441
Fax: 704-822-0922

II. Off-loading polymer safety (1/2 hour)



III. Storage (1 hour)

IV. Proper mixing and safety equipment (2 hours)
a. Secondary containment, compatible materials

V. Spills (2.5 hours)

VI. Haz-mat notification (1 hour)

VII. Question and answer (1/2 hour)

Any questions, please contact Robert Johnston at CalciQuest, Inc. at 800-929-6789.



CALCIQUEST

Warranty



WARRANTY POLICY

181 Woodlawn Ave
Belmont, NC
28012



704-822-1441
Fax 704 822 0922

Providing Purchaser notifies us promptly, if within one year from date of shipment chemical manufactured by us fails to function properly under normal and proper use because of defects in the material **or** workmanship demonstrated to our satisfaction to have existed at the time of delivery, the Company, will at our option replace at our expense, or give you proper credit for, such product determined by us to be defective.



The forgoing shall not apply to product that shall have been altered after shipment to you and the Company will not be liable in any event for alterations except those made with its written consent. Purchaser shall be solely responsible for determining suitability for **use** and the Company shall in no event be liable in this respect.

The foregoing obligations are in lieu of all other obligations and liabilities including negligence and all warranties of merchant-ability or otherwise expressed or implied in fact or by law, and state our entire and exclusive liability and buyer's exclusive remedy for any claim of damages in connection with the sale of furnishing of goods or parts, their design, suitability for use, installation or operation. We will in no event be liable for any special or consequential damages whatsoever, and our liability under no circumstances will exceed the contract price for the goods for which liability is claimed.

Job Bush
GovernorJohn O. Agwunobi MD, MBA.
Secretary

August 15, 2002

Mr. Rob Johnston
Calciquest, Inc.
181 Woodlawn Ave.
Belmont, NC 28012RE: Lee County Water Plants Chemicals
Certification of Approval

Dear Mr. Johnston,

We have received your request to verify that your chemical products can be applied to the water treatment processes for the Lee County Utilities plants here in Lee County. The proposed polymer products of CalciFloc 2244G, CalciFloc 2154G and CalciFloc 1020 are NSF approved for potable use. It is also understood that the proposed dosages to be applied will not exceed the maximum certified quantities.

The department will not object to the introduction of these chemicals to the treatment processes with the assumption that these products are equivalent substitutes for the previously used chemicals and that there are adequate equipment previously installed to control the dosages. These products can be applied to the water treatment processes as recommended by the manufacturer immediately unless otherwise noticed. All additives and chemicals used to treat water shall conform with ANSI/NSF Standard 60, and dosage rates shall conform with NSF recommendations.

Thank you for working with the LCHD. If you have any questions regarding this matter, please do not hesitate to call me or send me e-mail at jerry_ma@ch.state.fl.us.

Sincerely,

Handwritten signature of Jerry W. Ma in black ink.

Jerry W. Ma, P.E.
Environmental Engineering

cc: Tan Hill

LEE COUNTY HEALTH DEPARTMENT
John Hunter, M.D., M.P.H.
DirectorREPLY TO: Environmental Engineering
60 Banking Drive, Unit 81
Ft. Myers, Florida 33907
(941) 939-6245

| | CalciFloc 2154G | CalciFloc 22446 |
|------------------------|------------------------|------------------------|
| Manufacturing Location | Suffolk, VA | Suffolk VA |
| Lot # | 0749QS2V | 0955QS2V |
| | | |
| Ionicity | Anionic | Anionic |
| Charge Weight % | 15% | 29% |
| | | |
| | | |

CalciQuest, Inc.
181 Woodlawn Avenue
Belmont, NC 28012
Tele: 704-822-1441
Fax: 704-822-0922

Calcifloc 2154G Flocculant

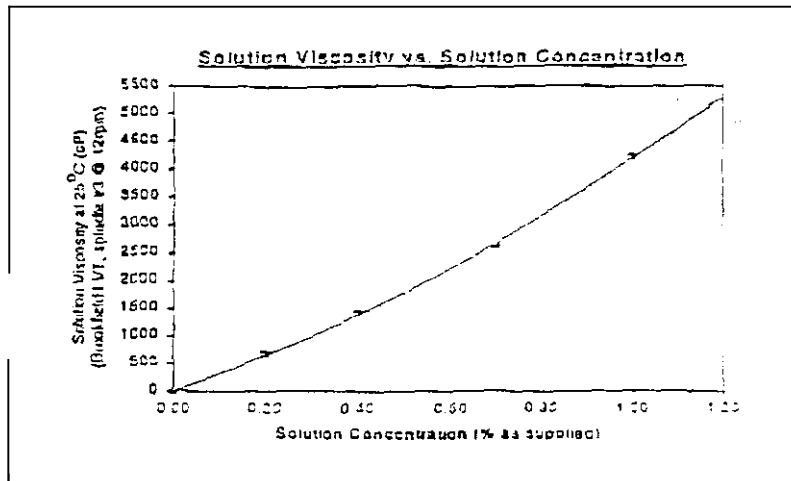
NSF Certified Granular Grade Anionic Polymer

Description Calcifloc 2154G is a medium molecular weight, polyacrylamide based flocculant which exhibits a low degree of anionic charge. It is a very pure product which has been specifically designed to meet the American Standard ANSI/NSF 60 and has been certified by NSF International for use in the treatment of potable water at a maximum recommended concentration of 1 mg/L. Calcifloc 2154G once hydrated in water, reacts readily to provide superior floc formation and performance in a variety of solids/liquid separation processes. Calcifloc 2154G is supplied in a free-flowing powder form.

Principal Uses Calcifloc 2154G can be used as a flocculant for a variety of municipal and Industrial waste substrates where NSF certification is needed. It has been proven especially effective for conditioning these substrates for solids sedimentation, filtration, thickening, and dewatering processes.

Calcifloc 2154G offers greatly improved solids/liquid separation efficiencies over a wide range of pH and is available in a variety of packaging for ease of handling and safety.

| Typical Properties | Physical form | Off-white, free-flowing powder |
|--------------------|--------------------|---|
| | Bulk density | 45 lbs./ft ³ |
| | Particle size | 70% > 780µm, 50% > 570µm, and 90% > 240µm |
| | Solution pH | 6-8 |
| | Solution Viscosity | See graph below |



Application & Storage Recommended solution concentrations:

Stock solution 0.25%-0.5%
Feed solution 0.01%-0.2%

Recommended storage periods:

Product as Supplied Up to two years
• Stock solution 2-5 days
Feed solution 1-3 days

Storage of the product and solutions for longer than the recommended periods may be acceptable under the correct conditions but could result in some loss of product efficiency. Product should be stored in a cool, dry place, and conditions of high temperature and high humidity should be avoided. Under such conditions, the hygroscopic nature of the product may result in excessive moisture up-take and product caking. Packages should be kept sealed when not in use.

Corrosive Properties

Corrosion towards most standard materials of construction is very low. Stainless steel, fiberglass, polyethylene, polypropylene and rubberized surfaces are recommended. In some cases, aluminum and galvanized surfaces can be adversely affected.

Packaging

Calcifloc 2154G, supplied in 50lb. (22.8kg) bags, 1102lb. (500kg.) bags, 1543lb. (700kg.) bags, 2000lb. (907kg.) bags, or in bulk by tanker delivery (40,000lb./18,143kg maximum).

Spills

Spills of Calcifloc 2154G should be contained and disposed of in accordance with local regulations.

Discharges of product or solutions of product to waterways should be avoided since some polymeric products may have an adverse effect on the mucous membranes on fish gills.

Solutions of Calcifloc 2154G are very slippery.

Health and Safety

Calcifloc 2154G exhibits a very low order of toxicity and does not present any abnormal problems in its handling or general use. Standard industrial safety procedures should be observed.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant Material Safety Data Sheets.

Warranty

The information contained in this leaflet is given in good faith but no liability is assumed nor is freedom from any patent owned by Ciba Specialty Chemicals or others implied. This information should not be taken to represent a specification for the product.

CalciQuest, Inc.
 181 Woodlawn Avenue
 Belmont, NC 28012
 Tele: 704-822-1441
 Fax: 704-822-0922

Effective Date: 2/28/02 Material Safety Data Sheet MSDS No.: 16282

SECTION 1. PRODUCT IDENTIFICATION

Trade Name: Calcifloc 2154G:

Chemical Family: Copolymer of sodium acrylate and acrylamide.

| | |
|----------------------|---|
| Health | 0 |
| Flammability | 1 |
| Reactivity | 0 |
| Protective Equipment | X |

HMSIS RATING

Intended Use or Product Type: Coagulation & Flocculation-ANSI/NSF Standard 60 certified.

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| O S H A | CAS No. | CHEMICAL IDENTITY | EXPOSURE LIMITS | | | | CARCINOGEN STATUS | | | |
|------------------|------------|---|-----------------|------|------|------|-------------------|------|-----|------|
| | | | ACGIH | | OSHA | | MFR. | IARC | NTP | OSHA |
| | | | TWA | STEL | PEL | STEL | | | | |
| | 25085-02-3 | COPOLYMER OF ACRYLAMIDE:SODIUM ACRYLATE | NE | NE | NE | NE | NE | NR | NR | NR |

NE = Not Established NR = Not Reviewed

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

Description: White, free flowing powder with little or no odor.

Statement of Hazards: NA (not a health hazard as defined by OSHA)

Precautionary Measures: Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Avoid prolonged or repeated inhalation of dust or skin contact. Slip hazard when wet.

Effective Date: 2/28/02

Calcifloc 2154G

Primary Route(s) of Entry: Inhalation

Signs and Symptoms of Exposure: Eye contact may produce slight irritation and/or redness. Inhaled dust may cause some respiratory irritation.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH

Medical Conditions Aggravated by Exposure: Existing respiratory conditions.

Target Organ(s): NA

SECTION 4. FIRST AID MEASURES

Ingestion: DO not give an emetic unless directed by a physician. Never give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing and laundry before reuse. Wash effected area with soap and water.

Inhalation: Remove to fresh air.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: Not Applicable
Autoignition: Not Evaluated

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: Dust in sufficient concentration may result in an explosive mixture in air.

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical or foam.

Fire Fighting Equipment: No special procedures. However, wetted product presents a slip hazard. Pedestrian and vehicular traffic must proceed with caution where wet product may exist.

Fire and Explosion Hazards: Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting, and eliminate open flame and other sources of ignition.

Extinguishing Media to Avoid: Water may create a slip hazard with product.

Hazardous Combustion Products: Oxides of carbon and nitrogen.

Dust Explosivity: Dust in sufficient concentration may result in an explosive mixture in air.

Emergency Response Guidebook Information: No ERG # indicated. Handle as combustible material.

SECTION 6. ACCIDENTAL RELEASE-MEASURES

Accidental Release Measures: Product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material. Then water wash area to waste treatment to eliminate slip hazard.

SECTION 7. HANDLING AND STORAGE

Precautions: Good personal hygiene practices can reduce potential exposure. Wash with soap and water following any contact with this product, as well as before breaks and meals. Shower and change clothing at end of work shift. If clothing becomes contaminated, remove and launder or dry-clean before reuse.

Storage Information: Store in cool dry location

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Not normally required

Respiratory Protection: Use NIOSH approved dust respirator as required to control exposure. Follow ANSI Z88.2

Eye Protection: Goggles (ANSI Z87.1 std; safety glasses alone do not protect from dust).

Engineering Controls: Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.

Additional Information: Provide eyewash station(s). Select additional protective equipment (eg apron, face shield, etc.), depending on conditions of use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------|--|
| Physical Form: | Granular Powder |
| Color: | White |
| Odor: | Little or No |
| Odor Threshold: | Not applicable |
| Physical State: | Solid |
| Solubility in Water: | Soluble, solubility limited by viscosity |
| Vapor Pressure: | Not Applicable |
| Specific Gravity: | ~ 0.75 |
| Boiling Point: | Not Applicable |
| Melting Point: | Not Applicable |
| Freezing Point: | Not Applicable |
| Decomposition Temperature: | Not Evaluated |
| Evaporation Rate: | Not Applicable |
| Vapor Density: | Not Applicable |
| VOC: | Not Evaluated |
| pH: | ~ 6 For 1 % solution. |
| Coefficient of water/oil: | Not Evaluated |

Percent Volatile:
None expected above trace levels.

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid: Avoid wet and humid conditions.

Stability: Stable.

Hazardous Polymerization: Will not occur..

Hazardous Decomposition Products: Thermal decomposition or combustion may produce oxides of carbon and nitrogen, various hydrocarbons, and/or ammonia which may be irritating or harmful.

Incompatibility: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:

Low oral toxicity. By analogy to similar materials, the acute LD50 (rat) is expected to be > 2000 mg/kg.

Carcinogenicity:

Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Toxicity:

No data for product. No effects anticipated.

Teratogenicity:

No data for product. No effects anticipated.

Mutagenicity:

No data for product. No effects anticipated.

Skin Irritation:

57-13-6 UREA

Mild irritant (human).

Intravenous LD 50:

57-13-6 UREA

LD50(Rat): 5300 mg/kg.

LD50(Mice): 4600 mg/kg.

LD50(Rabbit): 4800 mg/kg.

Toxicologically Synergistic Products:

None known.

Additional Information:

57-13-6 UREA

LD50(Rat): 8200 mg/kg (Subcutaneous).

LD50(Mice): 8200 mg/kg (Subcutaneous).

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information:

Product not considered toxic to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Effective Date: 2/28/02

Calcifloc 2154G

RCRA Hazard Class: This product, when unadulterated, is not a RCRA regulated hazardous waste

Waste Disposal Method: Disposal must be arranged in accordance with local, state and federal regulations. Care must be taken to prevent environmental contamination from the disposal of material, residues and containers.

SECTION 14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name:

NOT A DOT/HMO HAZARDOUS MATERIAL

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:

Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the Chemical Weapons Convention Schedules of Chemicals.

Clean Air Act -Hazardous Air Pollutants (HAP): The following chemical(s) are listed as hazardous air pollutants (HAP) under the U.S. Clean Air Act Section 12 (40 CFR 61):

Chemical Name: ACRYLIC ACID (Impurity)

CASRN: 79-10-7

Percent in Composition: < 0.5 % by wt

Chemical Name: 2-Propenamido (Impurity)

Common Name: Acrylamide

CASRN: 79-06-1

Percent in Composition: < 0.1 % by wt

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR §2, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Occupational Safety and Health Act (OSHA): This product is not considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a P or U listed hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS): This product contains the following chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances:

Chemical Name: ACRYLAMIDE

CASRN: 79-06-1

Percent in Composition: <0.1 % by wt

SARA Title III: Section 304 - CERCLA: This product contains the following chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: ACRYLIC ACID (Impurity)
CASRN: 79-10-7
Percent in Composition: < 0.5% by wt
Component RQ: 5000

Chemical Name: 2-Propenamide (Impurity)
Common Name: Acrylamide
CASRN: 79-06-1
Percent in Composition: < 0.1% by wt
Component RQ: 5000

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): This product is not regulated under Section 311-312 (40 CFR 370).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 5(e) - Consent Order / SNUR: This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TCCX Section 8(b) - Inventory Status: All chemical(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product contains the following chemical(s) that are subject to a Section 12(b) export notification:

Chemical Name: ACRYLIC ACID (Impurity)
CASRN: 79-10-7

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: ACRYLAMIDE
CASRN: 79-06-1
Percent in Composition: < 0.1% by wt

Massachusetts Right-to-Know: The following is required composition information:

Chemical Name: 2-Propenamide (Impurity)
Common Name: Acrylamide
CASRN: 79-06-1
Percent in Composition: < 0.1% by wt

Chemical Name: ACRYLIC ACID (Impurity)
CASRN: 79-10-7
Percent in Composition: < 0.5% by wt

New Jersey Right-to-Know: The following is required composition information:

Chemical Name: COPOLYMER OF ACRYLAMIDE;SODIUM ACRYLATE

Effective Date: 2/28/02

Calcifloc 2154G

CASRN: 25085-02-3

Chemical Name: WATER
CASRN: 7732-18-5

Chemical Name: UREA
CASRN: 57-13-6

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: COPOLYMER OF ACRYLAMIDE: SODIUM ACRYLATE
CASRN: 25085-02-3
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: WATER
CASRN: 7732-18-5
Comment: Not on Pennsylvania Hazardous Substance List

SECTION 16. OTHER INFORMATION

MSDS No: 16282
Reason Issued: New format
Prepared By: Leon Knight
Approved By:
Supersedes Date: 11/30/01

Sections Modified: All sections. New MSDS.

Disclaimer: The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

NSF Status: Maximum use level for potable water: 1 mg/L.

FORMAL QUOTATION NO Q-040296
LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES

DATE SUBMITTED: MAY 17, 2004

VENDOR NAME: ALTIVIA

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions". and the "Detailed Specifications" all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers: NONE RECEIVED

GRAND TOTAL (ALL SECTIONS): \$ 18,120.⁰⁰

WILL YOU DELIVER WITH YOUR OWN VEHICLE AS OPPOSED TO COMMON CARRIER?

YES _____ NO X

NOTE: Prices shall include firm delivered prices within the minimum/maximum quantity ranges F.O.B., I C ty Florida to the deli l t i as ified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: n/a

\$10 BICI EA. X 2,228 dry tons = Total cost \$ 100 BICI

Manufacturer n/a

Min/max 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: n/a

\$100,300 EA. X 70 tons = Total Cost \$ 100,300

Manufacturer n/a

Min/max 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: n/a

\$100,000 EA. X 8,650 lbs. (100#) pails = Total Cost \$ 100,000

Min/max 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: n/a

\$100,000 EA. X 40 tons = Total Cost \$ 100,000

Manufacturer -

Midmax 25 tons

SECTION 5, POLYMER

Specify product name n/a

\$100,300 EA X 16,400 lbs = Total Cost \$ 100,300

Manufacturer n/a Calciquest **2154G** or equal

Midmax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name n/a

\$100,000 EA X 600 lbs = Total Cost \$ 100,000

Manufacturer n/a Calciquest **2244G** or equal

Min/max 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: n/a

\$ NO Bid EA. X 50,000 lbs (55 gal. drums) = Total Cost \$ NO Bid

Manufacturer n/a **Ciba Specialty Chemicals Zetag 7818 or equal**

Min/max – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: n/a

\$ NO Bid EA. X 70,000 lbs = Total Cost \$ NO Bid

Manufacturer n/a **Shannon SNC-RS2 or equal**

Midmax 2,000 – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: n/a

\$ NO Bid EA. X 40,000 lbs = Total Cost \$ NO Bid

Manufacturer n/a

Minimax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: n/a

\$ NO Bid EA. X 5,491 tons = Total Cost \$ NO Bid

Manufacturer n/a

Midmax 25 tons

SECTION 9A. QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: N/A

\$12.00 EA. X 30 tons = Total Cost \$360.00

Manufacturer N/A

Min/max 25 - 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: Akta Chlor 25

\$6.40 gal EA. X 3,000 gallons = Total Cost \$19,200.00

Manufacturer Vulcan Performance Chemicals

Minimax 2,000 - 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: N/A

\$12.34 EA. X 90 dry tons = Total Cost \$1,110.60

Manufacturer N/A

Minimax 500 - 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: N/A

\$10.00 EA. X 16,300 gallons = Total Cost \$163,000.00

Manufacturer N/A

Minimax 250 - 1,500 gallons

SECTION 12. SULFUR DIOXIDE

Specify product name: n/a

\$ 10700 EA. X 34 tons = Total Cost \$ 363800

Manufacturer n/a

Min/max 2 – 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: n/a

\$ 10700 EA. X 120 tons = Total Cost \$ 1284000

Manufacturer n/a

Min/max 500 – 3,000 gallons

TO BE STARTED WITHIN 2 - 4 CALENDAR DAYS AFTER RECEIPT OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No X

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. Any representation of deviation or modification to the quote may be grounds to reject the quote.

Are there any modifications to the quote or specifications:

Yes _____ No X

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the **firm** name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the County

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME ALTIVIA

BY (Printed): Gayle M. Tullafse

BY (Signature): Gayle M. Tullafse

TITLE: Sr. Contract Administrator

FEDERAL ID # OR S.S.# 76-0280332

ADDRESS: 1100 Louisiana, Ste 316C
HOUSTON, TEXAS 77002

PHONE NO.: (866) 258-4842

FAX NO.: (713) 658-0102

CELLULAR PHONE/PAGER NO.: _____

LEE COUNTY OCCUPATIONAL LICENSE NUMBER: _____

E-MAIL ADDRESS: bids@altivia.com

REVISED: 7/28/00

FORMAL QUOTATION NO Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your firm

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida'?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 4
2. Describe the types and amount of equipment you have available to service this contract.

ALTIVIA has all equipment required to supply Lee County with Sodium Chlorite in a safe and efficient manner

3. Describe the types and amount of material stock that you have available to sei-vice this contract.

ALTIVIA purchases Sodium Chloride directly from

the manufacturer & delivers the material to

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes

No _____

If yes, please provide your contractual history with Lee County for the past five consecutive years. Attach additional pages if necessary.

ALTIVIA purchased the municipal drinking water division of Vulcan Performance Chemicals in January 2003 and acquired Lee County at that time. Since that time ALTIVIA has supplied Lee County with their Sodium Chloride Requirement.

IMPORTANT: Please read carefully and return with your bid proposal.
 Please check off each of the following items as the necessary action is completed:

1. The Quote has been signed.
2. The Quote prices offered have been reviewed.
3. The price extensions and totals have been checked.
4. The original (must be manually signed) and 2 copies of the quote have been submitted.
5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
6. All modifications have been acknowledged in the space provided.
7. All addendums issued, if any, have been acknowledged in the space provided.
8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
9. Bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
10. Any Delivery information required is included.
11. The mailing envelope has been addressed to:

| | |
|-------------------------|---|
| MAILING ADDRESS | Lee County Purchasing |
| | P.O. Box 398 |
| | or |
| | Ft. Myers, FL 33902-0398 |
| PHYSICAL ADDRESS | Lee County Purchasing |
| | 1825 HENDRY STREET, 3 RD FLOOR |
| | Ft. Myers, FL 33901 |
12. The mailing envelope **MUST** be sealed and marked with:

| | |
|--------------|------------------------------------|
| Quote Number | Opening Date and/or Receiving Date |
|--------------|------------------------------------|
13. The quote will be mailed or delivered in time to be received no later than the specified opening date and time. (Otherwise quote cannot be considered or accepted.)
14. If submitting a "NO BID" please write quote number here _____ and check one of the following:

| | |
|--|--|
| <input type="checkbox"/> Do not offer this product | <input type="checkbox"/> Insufficient time to respond. |
| <input type="checkbox"/> Unable to meet specifications (why) | <input type="checkbox"/> Unable to meet bond or insurance requirement. |
| Other: _____ | |

 Company Name and Address:



ALTIVIA Corporation
1100 Louisiana St., Suite 3160
Houston, Texas 77002-5217
Telephone: (713) 658-9000
Fax: (713) 658-0102
Web: www.altivia.com

May 17, 2004

AFFIDAVIT OF COMPLIANCE

ALTIVIA's Sodium Chlorite (Akta Klor 25), manufactured by Vulcan Chemicals (Wichita, KS) complies with A.W.W.A. B303-88 specifications, including purity levels, chemical requirements, and physical requirements. In addition, the National Sanitation Foundation (NSF) International certifies Vulcan's Sodium Chlorite in potable drinking water.

EPA #: 21164-6

Gayle M. Tollefsen
Senior Contract Administrator



A Business Unit of Vulcan Materials Co.

MATERIAL SAFETY DATA SHEET

24 Hour Emergency Phone 800-835-2030

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

Akta Klor 25

CHEMICAL NAME

Sodium Chlorite Solution

SYNONYMS

25% Active Sodium Chlorite Solution

MANUFACTURER

Vulcan Chemicals, P O Box 385015, Birmingham,AL 35238-5015

SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS

| <u>CHEMICAL NAME</u> | <u>CAS NUMBER</u> | <u>OSHA PEL</u> | <u>OSHA PEL</u> |
|----------------------|-------------------|-----------------|------------------|
| Sodium chlorite | 7758-19-2 | 24.3-25.7% | None Established |

* Denotes chemical subject to reporting requirements of Section 313 of Title III of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40 CFR Part 372

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, water white to slightly yellow liquid, slight chlorine odor
DANGER! Causes skin and eye irritation or burns. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

INHALATION

Inhalation of vapors or mists may cause irritation of the mucous membranes and respiratory tract. Symptoms may include coughing, bloody nose, and sneezing. Severe overexposures may cause lung damage.

SKIN

Direct contact may cause severe irritation and/or burns with symptoms of redness, itching, swelling and possible destruction of tissue.

EYE

Direct contact may cause severe irritation and/or burns with symptoms of redness, itching, swelling and possible destruction of tissue.

INGESTION

Ingestion may cause gastroenteritis with any or all of the following symptoms: nausea, vomiting, lethargy, diarrhea, bleeding or ulceration. Acute ingestion of large quantities may also cause anemia due to the oxidizing effects of the chemical.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Deficiency in G6PD enzyme and other red blood cell diseases.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY

None known or reported.

SECTION 4 FIRST AID MEASURES**INHALATION**

Move patient to fresh air and monitor for respiratory distress. If cough or difficulty in breathing develops, administer oxygen, and consult a physician immediately. In the event that breathing stops, administer artificial respiration and obtain emergency medical assistance immediately.

SKIN

Remove contaminated clothing. Immediately flush exposed skin areas with large amounts of water for at least 15 minutes. Consult a physician if burning or irritation of the skin persists. Contaminated clothing must be laundered before re-use.

EYES

Immediately flush eyes with large amounts of water for at least 15 minutes while frequently lifting the upper and lower eyelids. Consult a physician immediately.

INGESTION

DO NOT induce vomiting. Drink large quantities of water. Consult a physician immediately. DO NOT give anything by mouth if the person is unconscious or having seizures.

NOTES TO PHYSICIAN

Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient closely for delayed development of pulmonary edema which may occur up to 48-72 hours post-inhalation.

See Section 11 for Toxicological Information

SECTION 5 FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES****FLASH POINT**

Not Applicable

AUTOIGNITIONTEMPERATURE

Not Applicable

FLAMMABLE LIMITS IN AIR (PERCENT BY VOLUME)

Not Applicable

EXTINGUISHING MEDIA

Not Applicable-Choose extinguishing media suitable for surrounding materials

FIRE FIGHTING INSTRUCTIONS

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Use flooding quantities of water as fog or spray. This product becomes a fire or explosion hazard if allowed to dry, so use water spray to keep fire-exposed containers cool. Extinguish fire using agent suitable for surrounding fire.

Firefighters should wear full protective clothing (chemically impermeable, full encapsulated suit) and positive pressure self-contained breathing apparatus. This product becomes a fire or explosive hazard if allowed to dry; see Section 10.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Isolate spill area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition, such as flames, hot glowing surfaces or electric arcs. Stop source of spill as soon as possible and notify appropriate personnel. Cleanup personnel must wear proper protective equipment (refer to Section 8). Notify all downstream water users of possible contamination.

Create a dike or trench to contain all liquid material. Spill materials may be absorbed using clay, soil or non-flammable commercial absorbents. Continue to keep damp. If allowed to dry, dried material can ignite in contact with combustible materials.

This product may represent an explosion hazard if it contacts acids or chlorine. If such contact is possible, evacuation procedures must be placed into effect. Evacuate all non-essential personnel. Hazardous concentrations in air may be found in local spill area and immediately downwind.

Do not place spill materials back in their original container. Containerize and label all spill materials properly. Decontaminate all clothing and, if permitted, the spill area using strong detergent and flush with large amounts of water.

SECTION 7 HANDLING AND STORAGE

HANDLING

Do not get in eyes or on skin, or clothing. Do not taste or swallow. Do not handle with bare hands. Use only thoroughly clean, dry utensils when handling. Avoid breathing mists or fumes. This product becomes a fire hazard if allowed to dry. Remove and wash contaminated clothing to avoid fire.

Follow protective controls set forth in Section 8 when handling this product. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom.

This solution contains sodium chlorite. Dry sodium chlorite is a strong oxidizing agent. Mix only into water. Contamination may start a chemical reaction with generation of heat, liberation of hazardous gases (chlorine dioxide a poisonous, explosive gas), and possible fire and explosion. Do not contaminate with garbage, dirt, organic matter, household products, chemicals, soap products, paint products, solvents, acids, vinegar, beverages, oils, pine oil, dirty rags, or any other foreign matter.

STORAGE

STORAGE CONDITIONS

Store in closed, properly labeled tanks or containers. Do not store at temperatures above 100°C (212°F). Do not remove or deface labels or tags. Do not expose to direct sunlight or ultraviolet light.

Avoid contact with combustible or readily oxidizable materials; sulfur-containing rubber

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT

Acids, reducing agents, combustible material, oxidizers (such as hypochlorites), paints, sulfur, solvents.

SECTION 8 EXPOSURE CONTROLS. PERSONAL PROTECTION

ENGINEERING CONTROLS

VENTILATION

Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

EYE AND FACE PROTECTION

Wear chemical goggles. A face shield should be worn in addition to goggles where splashing or spraying is a possibility.

SKIN PROTECTION

Wear Neoprene gloves, boots and apron.

RESPIRATORY PROTECTION

Wear a NIOSH/MSHA approved acid gas respirator plus dust/mist pre-filters if any exposure to dust or mist is possible.

GENERAL

Emergency eye wash and safety showers must be provided in the immediate work area. Thoroughly wash all contaminated clothing.

EXPOSURE GUIDELINES

None Established

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**CHEMICAL FORMULA**

NaClO₂

MOLECULAR WEIGHT

90.45

APPEARANCE AND ODOR

Clear, water white to slightly yellow liquid, slight chlorine odor

SPECIFIC GRAVITY

1.21 @ 25/25°C

VAPOR PRESSURE

No Available Data

DENSITY

10.1 lbs./gal @25°C

pH @ 25°C

>12

VOLATILES, PERCENT BY VOLUME

59-74%

CRYSTALLIZATION POINT

-7°C for 25% Solution

SOLUBILITY IN WATER

Complete

SECTION 10 STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Stable

CONDITIONS TO AVOID

Temperatures above 175°C (347°F) (dry material)
Evaporation to dryness; dried material can ignite upon contact with combustibles
Exposure to sunlight or ultraviolet light can reduce product strength.

INCOMPATIBILITY WITH OTHER MATERIALS

Acids, reducing agents, combustible materials, oxidizers (such as hypochlorites), sulfur-containing rubber, dirt, soap, solvents, paints.
Contamination with acids, chlorine or organic materials. Avoid contact with heat or flame source.

HAZARDOUS DECOMPOSITION PRODUCTS

Explosive and toxic chlorine dioxide gas will be generated on contact with acids or chlorine

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION**ACUTE TOXICITY****INHALATION**

Inhalation may cause irritation of the mucous membranes and respiratory tract. Symptoms may include coughing, bloody nose, and sneezing. Severe overexposures may cause lung damage.

ANIMAL TOXICOLOGY

Inhalation LC₅₀: No available data
Dermal LD₅₀: > 2 g/kg (rabbit)
Oral LD₅₀: 165 mg/kg (rat)

CHRONIC TOXICITY**INHALATION**

There is no available data on the chronic effects of inhaling sodium chlorite.

SKIN

There are no studies or reports on the repeated effects of dermal exposure to sodium chlorite. Because of the acute effects, repeated direct contact may be unlikely.

INGESTION

The chronic ingestion of low concentrations of this product has been studied in laboratory animals. Concentrations in the drinking water of 100 ppm and higher have been shown to cause mild anemia and a minor suppression of thyroid functions in laboratory animals. All effects were reversible after cessation of treatment.

Clinical studies of communities using sodium chlorite as a disinfectant found no adverse effects in the human population studied. However, other studies have suggested that those individuals deficient in an enzyme (G6PD) utilized in hemoglobin synthesis might be susceptible to the development of anemia if exposed repeatedly.

Repeated exposures to solutions of chlorine dioxide at concentrations of 10-100 ppm have produced slight effects upon the thyroid in younger animals and the hematologic system. Exposures to this concentration can reduce the cellular and blood levels of glutathione, an agent which is protective against the oxidizing effect of this chemical. Exposure of laboratory animals above 100 ppm in the drinking water have shown a decrease in blood cell glutathione, red blood cell count and hemoglobin. In some studies these levels also caused a slight decrease in thyroid hormones, especially in younger animals.

CARCINOGENICITY

Sodium chlorite is not listed by NTP, IARC, OSHA, EPA, or any other authority as a carcinogen. Carcinogenicity studies conducted in mice and rats did not show an increase in tumors in animals exposed to sodium chlorite in their drinking water.

MUTAGENICITY

Sodium chlorite has been evaluated for possible mutagenic effects in several laboratory tests. Sodium chlorite tested positive in the Ames Salmonella reverse mutation assay without metabolic activators and caused chromosomal aberrations in an in vitro Chinese hamster fibroblast cell line without metabolic activators. Sodium chlorite also tested positive in the mouse micronucleus assay when administered intraperitoneally (directly into the body cavity), but was not mutagenic when administered orally. The significance of these test results for human health is unclear because the oxidizing effects of the chlorite or salting effects of sodium may significantly affect the ability of the tests to accurately detect mutagens.

REPRODUCTIVE TOXICITY

Sodium chlorite has not been found to be teratogenic in studies in which animals have been exposed up to 100 ppm in the drinking water. Male rats repeatedly exposed to concentrations of 100 ppm or greater in the drinking water have shown slight effects on sperm motility. No effects were observed at 10 ppm and no effects were observed on fertility rate, histology of the male reproductive system or conception rate of animals exposed at 10 ppm or higher.

The CMA conducted a two-generation reproductive rat study with developmental neurotoxicity to evaluate the effects of sodium chlorite on reproduction and pre- and post-natal development when administered orally via drinking water for two successive generations. Sodium chlorite was administered at 0, 35, 70, and 300 ppm in drinking water to male and female Sprague Dawley rats for ten weeks prior to mating. Dosing continued during the mating period, pregnancy and lactation. The final report concluded that there were no meaningful treatment related effects at any dose level for systemic, reproductive/developmental, and developmental neurological end points. Hematological effects and reduced body weight gains were observed in some treatment groups.

SECTION 12 ECOLOGICAL INFORMATION

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

ENVIRONMENTAL FATE

Water:

Sodium chlorite in water will eventually degrade to sodium chloride.

Soil:

Sodium chlorite in contact with acidic soil could generate chlorine dioxide.

ECOTOXICITY

Acute TL₅₀ for Rainbow Trout: 50.6 mg/l (as 80% NaClO₂)

Acute LC₅₀ (96 Hours) for Rainbow Trout: 290 mg/l (as 80% NaClO₂)

Acute TL₅₀ for Bluegill: 208 mg/l (as 80% NaClO₂)

Acute LC₅₀ (96 Hours) for Bluegill: 265-310 mg/l (as 80% NaClO₂)

Acute LD₅₀ Mallard Ducks: 0.49-1.00 g/kg (gavage) (as 80% NaClO₂)

Acute LD₅₀ Bobwhite Quail: 0.66 g/kg (gavage) (as 80% NaClO₂)

Acute LC₅₀ (48 Hours) for Daphnia Magna: 0.29 mg/l (as 80% NaClO₂)

Sodium chlorite in the diet of birds was not acutely toxic. Eight-day dietary LC₅₀'s in mallard ducks and bobwhite quail were both greater than 10,000 ppm in the diet.

SECTION 13 DISPOSAL CONSIDERATIONS

All disposals of this material must be done in accordance with local, state and Federal regulations. Waste characterization and compliance with disposal regulations are the responsibilities of the waste generator.

SPILL RESIDUES

If this product becomes a waste it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste designation: D002. Also, it will be subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.

As a hazardous liquid waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility.

SECTION 14 TRANSPORT INFORMATION

DOT IDENTIFICATION NO.

UN 1908

DOT SHIPPING DESCRIPTION (49 CFR 172.101)

Chlorite solution, 8, UN 1908, II

PLACARD REQUIRED

Corrosive, 1908, Class 8

LABEL REQUIRED

Corrosive, Class 8

Label as required by EPA and by OSHA Hazard Communication Standard, and any applicable state and local regulations

IMO REQUIREMENTS

EmS No.: 8.06

SECTION 15 REGULATORY INFORMATION

U S FEDERAL REGULATIONS

REPORTABLE QUANTITY (RQ)

Not Applicable

TOXIC SUBSTANCES CONTROL ACT

Listed on TSCA Inventory

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III

Components identified with an asterisk (*) in Section 2 are subject to the reporting requirements of Section 313 of Title III of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40 CFR Part 372.

SARA HAZARD CATEGORIES (40 CFR 370.2)

HEALTH: Immediate (Acute), Delayed (Chronic)

PHYSICAL: Fire

INTERNATIONAL REGULATIONS

CANADA

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION

WHMIS Classifications applicable to this product:

E (Corrosive Material) based on assignment to TDG Class 8

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

All components of this product are on the Domestic Substances List (DSL).

HAZARDOUS PRODUCTS ACT

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR).

EUROPE

EINECS No.: 231-836-6

STATE REGULATIONS

CALIFORNIA PROPOSITION 65

Sodium Chlorite does not appear on the California Proposition 65 list

SECTION 16 OTHER INFORMATION**NFPA RATINGS**

Health 3, Flammability 0, Instability 1

For informationAvailable 24 hours a day:
800-835-2030Outside USA, call:
316-524-5751**For any other information contact:**Vulcan Chemicals Technical Service Department
P O Box 385015, Birmingham, AL 35238-5015

Phone: 800-873-4898

8 AM - 5 PM, Central Time, Monday through Friday

NOTICE Vulcan Chemicals believes the information contained herein is accurate; however, Vulcan Chemicals makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein and the provision of information by or reliance on Vulcan's Technical Service Department is not intended to be and should not be construed as legal advice or as ensuring compliance with any federal, state or local laws and regulations. Any party using this product should review all such laws, rules or regulations prior to use.

NO WARRANTY IS MADE, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

Date of Preparation: February 26, 2002(R)

FORM 3239-646



➤ Close window to return to last page.

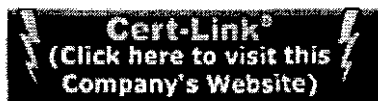
NSF Product and Service Listings

These Listings were Last Updated on **Monday, May 17, 2004** at 4:15 AM Eastern Time.
Please contact [NSF International](http://www.nsf.org) to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to <http://www.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=vulcan&TradeName=akta+klor+25&> for the latest most accurate information.

NSF/ANSI STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

VULCAN CHEMICALS



A BUSINESS GROUP OF VULCAN MATERIALS CO.
1200 URBAN CENTER DRIVE
P.O. BOX 385014
BIRMINGHAM, AL 35242-5014
800-873-4898
205-298-3405

Facility : FAIRMONT CITY, IL

Sodium Chlorite[CL]

Trade Designation

Akta Klor 25

Product Function

Disinfection & Oxidation

Max Use

22 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Facility : WICHITA, KS

Sodium Chlorite[CL]*Trade Designation*

Akta Klor 25

Product Function

Disinfection & Oxidation

Max Use

22 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

Number of matching Manufacturers is 1

Number of matching Products is 2

Processing time was 0 seconds

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ALTIVIA Corporation
1100 Louisiana St., Suite 3160
Houston, Texas 77002-5217
Telephone: (713) 658-9000
Fax: (713) 658-0102
Web: www.altivia.com

May 17, 2004

ALTIVIA SAFETY COMPLIANCE

ALTIVIA is committed to providing a safe and healthful work environment for all employees and customers.

It is the policy of ALTIVIA to manage and conduct operations and business in a manner that offers maximum protection to each employee and any other person that may be affected by our operations and business.

It is our absolute conviction that we have the responsibility of providing a safe and healthful work environment for our employees and all others that may be affected as we conduct our business.

We at ALTIVIA make every effort to provide a working environment that is free from any recognized or potential hazards.

ALTIVIA complies with all safety and health regulations established by federal, state, and local agencies.

ALTIVIA is pleased to state that we have not had a contract terminated due to our negligence.

ALTIVIA's internal Emergency Response Plan is included for review. ALTIVIA is also a member of Chemtrec for emergency assistance 24 hours a day 7 days a week.

Gayle M. Tollefsen
Senior Contract Administrator

EMERGENCY RESPONSE SITUATION

GUIDELINES FOR PHONE OPERATOR

An emergency has occurred at a customer location and the customer has called the ALTIVA emergency response line: 1-866-ALTIVIA EXT 400 for notification and assistance. Follow the procedure outlined below to collect preliminary information on the incident before contacting the Regional Emergency Response Coordinator.

PROCEDURE

A. ASK THE CUSTOMER TO PROVIDE THE FOLLOWING INFORMATION:

| | |
|---|-------------------|
| 1. Callers Name | |
| 2. Callers Contact Number | |
| 3. Customer Name | |
| 4. Customer Location | |
| 5. Location of Incident if different than 4 above | |
| 6. Type of Incident | |
| <ul style="list-style-type: none"> • Chemical spill or leak from tank or line • Chemical leak from drum or tote • Problem during delivery of product such as: Product delivered into wrong tank (find out what was in tank and if possible how much product was unloaded into the tank) • Catastrophic failure – specify • Other – specify | |
| 7. Which Chemical or chemicals were involved in the incident? | |
| 7. Time of Incident | |
| 8. Action taken to this point by the customer | |
| 7. Emergency contact at Incident location if different from 1 and 2 | |
| 8. Tell the customer contact that you will initiate the ALTIVA Local Emergency Response Team (ALERT) and a trained ALTIVA Emergency Responder will be in contact with them immediately to discuss the incident. THE ERC will determine what ALTIVIA's response to the incident should be after the ERC has assessed the situation and the need for ALTIVIA's involvement. | Customer Comment: |

B. CALL THE REGIONAL EMERGENCY CORR DINATOR WITHIN 15 MINUTES OF RECEIVING INITIAL CALL.

Provide the regional ERC with the information you have written down from your conversation with the customer on the incident. If you are unable to contact the regional ERC contact in order:

1. GREG BECKSTROM: (225)773-0769 (if he is the ERC then contact next closest ERC)
2. THE ERC LOCATED NEXT CLOSEST TO THE INCIDENT
3. GLENN HOLDEN: (713) 819-4353

REGIONAL ERC FOR THE WATER TREATMENT DIVISION ARE AS FOLLOWS:

ALTIVIA Primary Responder:

Greg Beckstrom
 Safety Coordinator
 Cell Phone: (225)773-0769

REGIONAL RESPONDERS

| South East Region | |
|--------------------------|-------------------------|
| States Covered | FL, GA, AL, TN, SC, NC, |
| Emergency Responder | Ben Hale |
| Certification Level | Level III |
| Cell Phone Number | (407) 467-5499 |

| | |
|---------------------|--|
| States Covered | TX, LA, MS, AK, KS, MO, IA, NE, SD, ND, MN |
| Emergency Responder | Greg Beckstrom |
| Certification Level | Incident Commander |
| Cell Phone Number | (225) 773-0769 |

| | |
|---------------------|--|
| States Covered | IL, WI, MI, IN, OH, KY, PA, IN, WV, MD, VA, DE, NJ, NY, CT, RI, MA, NH, ME, VT |
| Emergency Responder | John MacPherson |
| Certification Level | Level III |
| Cell Phone Number | (845) 216-3117 |

| | |
|---------------------|--|
| States Covered | NM, AZ, NV, CO, MT, OR, ID, WA, CA, WY, UT |
| Emergency Responder | Dorm Matchim |
| Certification Level | Level III |
| Cell Phone Number | (916) 201-5953 |

12

FORMAL QUOTATION NO.: Q-040296

**LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR THE ANNUAL PURCHASE OF
CHEMICALS FOR UTILITIES**

DATE SUBMITTED: May 12, 2004

VENDOR NAME: Allied Universal Corp.

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges receipt of Addenda numbers:

GRAND TOTAL (ALL SECTIONS): \$ 83,313.90

WILL YOU DELIVER WITH *YOUR OWN* VEHICLE AS OPPOSED TO COMMON CARRIER?

YES x NO _____

NOTE: Prices shall include firm delivered prices within the minimum maximum quantity ranges F.O.B., Lee County Florida to the delivery locations as specified.

SECTION 1, ALUMINUM SULFATE (liquid)

Specify product name: _____

\$ No Bid EA. X 2,228 dry tons = Total Cost \$ _____

Manufacturer _____

Midmax 500-5,000 gallons

SECTION 2, ANHYDROUS AMMONIA

Specify product name: _____

\$ No Bid EA. X 70 tons = Total Cost \$ _____

Manufacturer _____

Midmax 500 – 2,500 lbs

SECTION 3, CALCIUM HYPOCHLORITE

Specify product name: Various

\$.938/# EA. X 8,650 lbs. (100#) pails = Total Cost \$ 8,113.70
(Minimum Delivery 5 Drums)

Midmax 1 – 20 pails

SECTION 4, HYDRATED LIME

Specify product name: _____

\$ No Bid EA. X 40 tons = Total Cost \$ _____

Manufacturer _____

Min/max 25 tons

SECTION 5, POLYMER

Specify product name: _____

\$ No Bid EA. X 16,400 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2154G or equal**

Midmax 600 – 2,000 lbs

SECTION 5A, POLYMER

Specify product name: _____

\$ No Bid EA. X 600 lbs = Total Cost \$ _____

Manufacturer _____ **Calciquest 2244G or equal**

Midmax 600 lbs

SECTION 5B, POLYMER, CATIONIC POLYACRYLAMIDE EMULSION

Specify product name: _____

\$ No Bid EA. **X 50,000** lbs (55 gal. drums) = Total Cost \$ _____

Manufacturer _____ **Ciba Specialty Chemicals Zetag 7848 or equal**

Min/max – four (4) 55 gallon drums

SECTION 6, POLYPHOSPHATE

Specify product name: _____

\$ No Bid EA. **X 70,000** lbs = Total Cost \$ _____

Manufacturer _____ **Shannon SNC-RS2 or equal**

Midmax **2,000** – 4,000 lbs

SECTION 7, POWDERED ACTIVATED CARBON

Specify product name: _____

\$ No Bid EA. X 40,000 lbs = Total Cost \$ _____

Manufacturer _____

Midmax 20,000 lbs

SECTION 8, QUICKLIME, BULK (POWDER TO 3/8")

Specify product name: _____

\$ No Bid EA. **X 5,491** tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 tons

SECTION SA, QUICKLIME, (FOUNDRY size: -3/8 x 1/16)

Specify product name: _____

\$ No Bid EA. X 30 tons = Total Cost \$ _____

Manufacturer _____

Midmax 25 – 30 tons

SECTION 9, SODIUM CHLORITE

Specify product name: _____

\$ No Bid EA. X 3,000 gallons = Total Cost \$ _____

Manufacturer _____

Midmax 2,000 – 3,000 gallons

SECTION 10, SODIUM HYDROXIDE 50% (CAUSTIC SODA)

Specify product name: Caustic Soda

\$ 376.00 EA. X 90 dry tons = Total Cost \$ 33,840.00
(Minimum Delivery 500 Gallons)

Manufacturer Various

Min/max 500 – 2,500 gallons

SECTION 11, SODIUM HYDROXIDE SOLUTION 25%

Specify product name: Caustic Soda

\$.89 EA. X 16,300 gallons = Total Cost \$ 14,507.00
(Minimum Delivery 250 Gallons)

Manufacturer Various

Min/max 250 – 1,500 gallons

SECTION 12, SULFUR DIOXIDE

Specify product name: Sulfur Dioxide

\$ 369.80 EA. X 34 tons = Total Cost \$ 12,573.20

Manufacturer Various

Min/max 2 - 4 tons

SECTION 13, SULFURIC ACID (BULK)

Specify product name: Sulfuric Acid

\$ 119.00 EA. X 120 tons = Total Cost \$ 14,280.00

(Minimum Delivery 500 Gallons)
Manufacturer Varinil-

Min/max 500 - 3,000 gallons

FORMAL QUOTATION NO.: Q-040296
TO BE STARTED WITHIN 3 work CALENDAR DAYS AFTER RECEIPT
OF AWARD AND PURCHASE ORDER.

Is your firm interested in being considered for the Local Vendor Preference?

Yes _____ No

If yes, then read the paragraph entitled "Local Vendor Preference" included in these specifications. Also complete the Local Vendor Preference Questionnaire and return with your quotation.

Quoters should carefully read all the terms and conditions of the specifications. **Any** representation of deviation or modification to the quote may be grounds to reject the quote.

Are there **any** modifications to the quote or specifications:

Yes No _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Ca1 Hypo - minimum delivery 5 drums

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the county.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT INQUIRED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER COMPANIES AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIAL (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME Allied Universal Corp.

BY (Printed): Catherine Guillarmod

BY (Signature): *Catherine Guillarmod*

TITLE: Executive Administrator

FEDERAL ID#OR S.S.# 59 0776285

ADDRESS: 3901 N.W. 115 Ave.

Miami, FL 33178

PHONENO.: (305) 888-2623

FAX NO.: (305) 463-8369

CELLULAR PHONE/PAGER NO.: _____

LEE COUNTY OCCUPATIONAL LICENSE NUMBER _____

E-MAIL ADDRESS: cathieg@allieduniversal.com

REVISED: 7/28/00

FORMAL QUOTATION NO.: Q-040296
ATTACHMENT A
LOCAL VENDOR PREFERENCE QUESTIONNAIRE
(LEE COUNTY ORDINANCE NO. 00-10)

Instructions: Please complete either Part A or B whichever is applicable to your **firm**

PART A: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS LOCATED WITHIN LEE COUNTY (Only complete Part A if your principal place of business is located within the boundaries of Lee County)

1. What is the physical location of your principal place of business that is located within the boundaries of Lee County, Florida?

2. What is the size of this facility (i.e. sales area size, warehouse, storage yard, etc.)

PART B: VENDOR'S PRINCIPAL PLACE OF BUSINESS IS NOT LOCATED WITHIN LEE COUNTY OR DOES NOT HAVE A PHYSICAL LOCATION WITHIN LEE COUNTY (Please complete this section.)

1. How many employees are available to service this contract? 75
2. Describe the types and amount of equipment you have available to service this contract.

Fleet of tractor trailers

3. Describe the types and amount of material stock that you have available to service this contract.

We have our warehouse stocked at all times.

4. Have you provided goods or services to Lee County on a regular basis for the preceding, consecutive five years?

Yes _____

No X

If yes, please provide your contractual history with Lee County for the past five, consecutive years. Attach additional pages if necessary.

FORMAL, QUOTATION NO.: Q-040296
LEE COUNTY PURCHASING - BIDDERS CHECK LIST

IMPORTANT: Please read carefully and return with your bid proposal.
Please check off each of the following items as the necessary action is completed:

- 1. The Quote has been signed.
- 2. The Quote prices offered have been reviewed.
- 3. The price extensions and totals have been checked
- 4. The original (must be manually signed) and 2 copies of the quote have been submitted.
- 5. Three (3) identical sets of descriptive literature, brochures and/or data (if required) have been submitted under separate cover.
- 6. All modifications have been acknowledged in the space provided.
- 7. All addendum issued, if any, have been acknowledged in the space provided
- 8. Erasures or other changes made to the quote document have been initialed by the person signing the quote.
- 9. bid Bond and/or certified Check, (if required) have been submitted with the quote in amounts indicated.
- 10. Any Delivery information required **is** included.

11. The mailing envelope has been addressed to:

MAILING ADDRESS

Lee County Purchasing
P.O. Box 398 **or**
Ft. Myers, FL 33902-0398

PHYSICAL ADDRESS

Lee County Purchasing
1825 HENDRY STREET, 3RD FLOOR
Ft. Myers, FL 33901

12. The mailing envelope **MUST** be sealed and marked with:
Quote Number
Opening Date and/or Receiving Date

13. The quote will be mailed or delivered in time to be received **no later than** the specified opening date and time. (Otherwise quote cannot be considered or accepted.)

14. If submitting a "NO BID" please write quote number here _____
and check one of the following:

- Do not offer **this** product Insufficient time to respond.
- Unable to meet specifications (why)
- Unable to meet bond or insurance requirement.

Other: _____

Company Name and Address:

NSF Product and Service Listings

These Listings were Last Updated on **Thursday, July 03, 2003** at 4:15 AM Eastern Time.
Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions

Warning: NSF is concerned about **fraudulent** downloading and manipulation of website text. If you have received this listing in hard copy, **always confirm this certification/listing information by going directly to <http://www.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Allied+Universal&>** for the latest most accurate information.

ANSI/NSF STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

ALLIED UNIVERSAL CORPORATION

3901 NW 115 AVENUE
MIAMI, FL 33178
800-981-6700

Plant at: WEST MEMPHIS, AR

Chlorine[CL]

Trade Designation

Chlorine

Product Function

Disinfection & Oxidation

Max Use

30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation

Caustic Soda

Sodium Hydroxide

Product Function

Corrosion & Scale Control

Corrosion & Scale Control

Max Use

100 mg/L

100 mg/L

Sodium Hypochlorite[CL]

Trade Designation

Aqua Guard Bleach

Aqua Guard Chlorinating Solution

Aqua Guard Sanitizer

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

84 mg/L

100 mg/L

100 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

| | | |
|----------------------------------|---------------------------|----------------|
| Hydroflosilicic Acid | Fluoridation | 6mg/L |
| Silicofluoric Acid | Fluoridation | 6mg/L |
| Sodium Hydroxide | Product Function | Max Use |
| Trade Designation | | |
| Caustic Soda | Corrosion & Scale Control | 100mg/L |
| Rayon Grade Caustic Soda 50% | Corrosion & Scale Control | 100mg/L |
| Sodium Hydroxide | Corrosion & Scale Control | 100mg/L |
| Sodium Hypochlorite[CL] | Product Function | Max Use |
| Trade Designation | | |
| Aqua Guard Bleach | Disinfection & Oxidation | 84mg/L |
| Aqua Guard Chlorinating Solution | Disinfection & Oxidation | 100mg/L |
| Aqua Guard Sanitizer | Disinfection & Oxidation | 100mg/L |

{CL} The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Plant at: RATTLESNAKE POINT, FL

| | | |
|--------------------------|--------------------------|----------------|
| Chlorine[CL] | Product Function | Max Use |
| Trade Designation | | |
| Chlorine | Disinfection & Oxidation | 30 mg/L |

{CL} The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

| | | |
|------------------------------|---------------------------|----------------|
| Sodium Hydroxide | Product Function | Max Use |
| Trade Designation | | |
| Caustic Soda | Corrosion & Scale Control | 100 mg/L |
| Rayon Grade Caustic Soda 50% | Corrosion & Scale Control | 100mg/L |
| Sodium Hydroxide | Corrosion & Scale Control | 100 mg/L |

| | | |
|----------------------------------|--------------------------|----------------|
| Sodium Hypochlorite[CL] | Product Function | Max Use |
| Trade Designation | | |
| Aqua Guard Bleach | Disinfection & Oxidation | 84 mg/L |
| Aqua Guard Chlorinating Solution | Disinfection & Oxidation | 100mg/L |
| Aqua Guard Sanitizer | Disinfection & Oxidation | 100 mg/L |

{CL} The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Plant at: BRUNSWICK, GA

Plant at: FORT PIERCE, FL**Chlorine[CL]****Trade Designation**

Chlorine

Product Function

Disinfection & Oxidation

Max Use

30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products **should** be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Fluosilicic Acid**Trade Designation**

Fluorosilicic Acid

Hydrofluosilicic Acid

Silicofluoric Acid

Product Function

Fluoridation

Fluoridation

Fluoridation

Max Use

6 mg/L

6 mg/L

6 mg/L

Sodium Hydroxide**Trade Designation**

Caustic Soda

Rayon Grade Caustic Soda 50%

Sodium Hydroxide

Product Function

Corrosion & Scale Control

Corrosion & Scale Control

Corrosion & Scale Control

Max Use

100 mg/L

100mg/L

100 mg/L

Sodium Hypochlorite[CL]**Trade Designation**

Aqua Guard Bleach

Aqua Guard Chlorinating Solution

Aqua Guard Sanitizer

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

84 mg/L

100mg/L

100 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to **all** applicable regulations.

Plant at: MIAMI, FL**Chlorine[CL]****Trade Designation**

Chlorine

Product Function

Disinfection & Oxidation

Max Use

30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Fluosilicic Acid**Trade Designation**

Fluorosilicic Acid

Product Function

Fluoridation

Max Use

6mg/L

Chlorine[CL]**Trade Designation**

Chlorine

Product Function

Disinfection & Oxidation

Max Use

30 mg/L

(CL) The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Fluosilicic Acid**Trade Designation**

Fluosilicic Acid

Product Function

Fluoridation

Max Use

6 mg/L

Hydrofluosilicic Acid

Fluoridation

6 mg/L

Silicofluoric Acid

Fluoridation

6 mg/L

Sodium Hydroxide**Trade Designation**

Caustic Soda

Product Function

Corrosion & Scale Control

Max Use

100mg/L

Rayon Grade Caustic Soda 50%

Corrosion & Scale Control

100mg/L

Sodium Hydroxide

Corrosion & Scale Control

100 mg/L

Sodium Hypochlorite[CL]**Trade Designation**

Aqua Guard Bleach

Product Function

Disinfection & Oxidation

Max Use

84 mg/L

Aqua Guard Chlorinating Sol.

Disinfection & Oxidation

100 mg/L

Aqua Guard Sanitizer

Disinfection & Oxidation

100 mg/L

(CL) The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Plant at: RANGER, GA**Chlorine[CL]****Trade Designation**

Chlorine

Product Function

Disinfection & Oxidation

Max Use

30 mg/L

(CL) The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide**Trade Designation**

Caustic Soda

Product Function

Corrosion & Scale Control

Max Use

100 mg/L

Sodium Hydroxide

Corrosion & Scale Control

100 mg/L

Sodium Hypochlorite[CL]**Trade Designation****Product Function**~~Max Use~~

| | | |
|------------------------------|--------------------------|----------|
| Aqua Guard Bleach | Disinfection & Oxidation | 84 mg/L |
| Aqua Guard Chlorinating Sol. | Disinfection & Oxidation | 100mg/L |
| Aqua Guard Sanitizer | Disinfection & Oxidation | 100 mg/L |

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to **all** applicable regulations.

Plant at: ELLISVILLE, MS

| | | |
|--------------------------|--------------------------|----------------|
| Chlorine [CL] | | |
| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
| Chlorine | Disinfection & Oxidation | 30mg/L |

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

| | | |
|--------------------------|--------------------------|----------------|
| Sodium Hydroxide | | |
| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
| Caustic Soda | Disinfection & Oxidation | 100mg/L |
| Sodium Hydroxide | Disinfection & Oxidation | 100mg/L |

| | | |
|------------------------------|--------------------------|----------------|
| Sodium Hypochlorite[CL] | | |
| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
| Aqua Guard Bleach | Disinfection & Oxidation | 84 mg/L |
| Aqua Guard Chlorinating Sol. | Disinfection & Oxidation | 100mg/L |
| Aqua Guard Sanitizer | Disinfection & Oxidation | 100 mg/L |

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

ALLIED UNIVERSAL CORPORATION

3901 NW 115 AVENUE
MIAMI, FL 33178
800-981-6700

Plant at: # 1 USA

| | | |
|------------------------------|-------------------------|-------------------|
| Calcium Hypochlorite[1] [CL] | | |
| <i>Trade Designation</i> | <i>Product Function</i> | <i>Max Use</i> |
| Aqua Guard | Algicide | 15mg/L |

Disinfection & Oxidation

[1] All Listed Calcium Hypochlorite product from this location is Certified whether or not it bears the NSF Mark.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Number of matching Manufacturers is 2

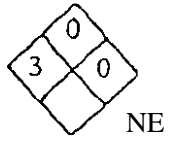
Number of matching Products is 56

Processing time was 0 seconds

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MATERIAL SAFETY DATA SHEET



I PRODUCT IDENTIFICATION

| | | | |
|----------------------------|---|-------------------------|-----------------------|
| MANUFACTURER'S NAME | Boliden Intertrade Inc. | REGULAR TELEPHONE NO. | 404-239-6700 |
| | | EMERGENCY TELEPHONE NO. | Chemtrec 800-424-9300 |
| ADDRESS | 3379 Peachtree Rd. N.E. Suite 300 Atlanta, Georgia 30326 | | |
| TRADE NAME | Sulfur Dioxide | | |
| SYNONYMS | SO ₂ | | |
| SHIPPING NAME ¹ | DOT: Sulfur Dioxide, 2.3, UN 1079 Placard Poison Gas IATA: | | |

| | | | |
|----------------|-----------|-------|---|
| Sulfur dioxide | 7446-09-5 | 99.9+ | Corrosive to skin, eyes, causing burns. In low concentrations, gas is irritating to respiratory |
| | | | |
| | | | |
| | | | |
| | | | |

III PHYSICAL DATA

| | | | |
|---|---|--|---|
| BOILING POINT, 760 MM HG | -10° C (14° F) | MELTING POINT | -75.5° C (-104° F) |
| SPECIFIC GRAVITY (H ₂ O = 1) | 1.434 @ 32° E | VAPOR PRESSURE | 760 @ 14° F |
| VAPOR DENSITY (AIR = 1) | 2.26 | SOLUBILITY IN H ₂ O % BY WT | 22.8 g/100 cc @ 0° C 0.58 g/100 cc @ 90° C |
| % VOLATILES BY VOL. | 100 | EVAPORATION RATE (ethyl ether = 1) | > 1 |
| APPEARANCE AND ODOR | Colorless liquid or irritant gas with char- | PH (AS IS) | Not determined |

| | | | |
|---------------------------|------|-------------------------|------|
| FLASH POINT (TEST METHOD) | None | AUTOIGNITION TEMPERANRE | None |
|---------------------------|------|-------------------------|------|

| | | | | |
|------------------------------------|-------|---------------|-------|----------------|
| FLAMMABLE LIMITS IN AIR, % BY VOL. | LOWER | ot applicable | UPPER | Not applicable |
|------------------------------------|-------|---------------|-------|----------------|

| | |
|---------------------|--|
| EXTINGUISHING MEDIA | Sulfur dioxide is not flammable. In fires where SO ₂ is present, water fog, foam, carbon dioxide and/or dry chemical can be used. |
|---------------------|--|

| | |
|---------------------------------|---|
| SPECIAL FIRE FIGHTING PROCEURES | Where SO ₂ is present, stop any SO ₂ flow. Containers should be immediately moved away from fire area. If this cannot be done, keep SO ₂ containers cool with water. Wear gas-tight chemical goggles and self contained breathing apparatus. |
|---------------------------------|---|

| | |
|-----------------------------------|--|
| UNUSUAL FIRE AND EXPLOSION HAZARD | SO ₂ is not flammable nor explosive. However pressure in SO ₂ containers increase rapidly with heat, and container should be kept cool with water if it cannot be moved. Containers have fusible metal plugs which melt at 165° F. |
|-----------------------------------|--|

| HEALTH HAZARD DATA | HAZARD CLASSIFICATION | BASIS FOR CLASSIFICATION | SCURL |
|--------------------------------------|--|---|--------------------|
| ROUTES OF EXPOSURE INHALATION | Corrosive - irritating muscal membranes in upper respiratory tract. | Criteria for recommended standard - Occupational Exposure to Sulfur Dioxide (NIOSH) | References 1, 2 |
| SKIN CONTACT | Corrosive to skin. | Criteria for recommended standard - Occupational Exposure to Sulfur Dioxide (NIOSH) | References 1, 2 |
| SKIN ABSORPTION | corrosive. | Criteria for recommended standard - Occupational Exposure to Sulfur Dioxide (NIOSH) | References 1, 2 |
| EYE CONTACT | Corrosive. Gas is irritating to the eye producing burning and corneal damage. | Criteria for recommended standard - Occupational Exposure to Sulfur Dioxide. (NIOSH) | References 1, 2 |
| INGESTION | Corrosive. | Liquid will quickly volatilize to SO ₂ gas. | References 1, 2 |

EFFECTS OF OVEREXPOSURE

At high concentrations, impaired breathing. Irritation to respiratory system. Severe eye burn and skin burns.

CHRONIC OVEREXPOSURE Symptoms change on acclimatization and exposure levels. Symptoms include irritation to the upper respiratory tract, coughing, epistaxis, constriction in the chest, and hemoptysis.

EMERGENCY AND FIRST AID PROCEDURES

Start **first aid** at once in case of contact with liquid SO₂ or excessive concentration of the gas.

EYES: Wash with water for at least 15 minutes holding eyelids apart. Call eye physician immediately and follow his directions.

SKIN: Flush with water while removing all clothes and shoes. Continue to flush with water for at least 15 minutes. Call a physician immediately.

INHALATION: Remove from exposure and give artificial respiration if breathing has ceased. Administer oxygen if apparatus and trained personnel are on hand. Call physician immediately.

INGESTION: Drink large quantities of water to reduce concentration. Do not induce vomiting. Call a physician immediately.

NOTES TO PHYSICIAN

References:

- 1) Dangerous Properties of Industrial Materials. N. Irving Sax; 6th Edition. Van Nostrand Reinhold Co., N. Y. 1984.
- 2) Occupational Health Guidelines for Chemical Hazards. U. S. Dept. of Human Health Services (NIOSH) Publication 81-123.

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Elevated temperatures cause liquid to gasify increasing pressure on containers.

COMPATIBILITY

Corrosive to zinc. Pressure of cylinders and tanks rapidly rise in fire. See other handling and storage requirements.

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products known.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

AQUATIC TOXICITY (E.G. 96 HR. TLM):

Not determined.

WASTE DISPOSAL METHOD

Since SO₂ vaporizes at atmospheric pressures and temperatures above 14° F, there is no normal liquid disposal problem, only gaseous. If the gas cannot be vented into an alkaline solution, provide ventilation for dilution and dispersion. Do not disperse in low lying stagnant areas as the gas is heavier than air.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

(Also see waste disposal method above.)

NEUTRALIZING CHEMICALS

If sulfur dioxide is dissolved in water, sulfurous acid is formed. Neutralize with lime, soda ash, or caustic soda.

VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS PEL = 2 ppm TWA. PEL = 5 ppm STEL. Exhaust ventilation and enclosure processes shall be used wherever practical. System shall be designed and maintained to prevent the accumulation or recirculation of sulfur dioxide into the work room. Ensure that outside discharge will not produce a health hazard to humans, animals, or plants.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

Use self-contained breathing apparatus, positive pressure hose masks equipped with **RESPIRATORY (SPECIFY IN DETAIL)** appropriate canister type gas mask equipped for the expected multiple of concentration in relation to the TWA limit.

EYE

Wear chemical safety goggles when danger of eye contact is present. Spectacle-type goggles with unperforated sides may be used for continuous eye protection. Face shield may be worn in place of or in addition to goggles.

PRECAUTIONARY STATEMENTS

Non-Flammable Gas.
PEL = 5 ppm or 13 mg/M³ STEL
PEL = 2 ppm TWA

OTHER HANDLING AND STORAGE REQUIREMENTS

Store containers where temperatures of liquid will not reach 125° F. Uninsulated tanks should be provided with a shed roof. Storage tanks (except cylinders) must be equipped with approved safety vent valves at 225 psig pressure.

ADDITIONAL REGULATORY CONCERNS

FEDERAL:

FDA Meets FCC requirements for food grade on certification.

EPA SARA Section 302 (Extremely hazardous substance): Yes
Section 311/312 (Hazardous categories): Acute, chronic, sudden release of pressure

TSCA Section 313 (Toxic chemicals list): No
IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? Yes

OTHER

STATE:

OSHA Product is a hazardous material as defined by 29 CFR 1910.1200 because it is corrosive to ingest, skin, eyes, and sulfur dioxide is regulated as an air contaminant.
Product is not listed in the National Toxicology Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances as a carcinogen or potential carcinogen.

PREPARED BY Richard D. Estes
TITLE: Manager - Technical Services
COMPANY: Boliden Intertrade Inc.
ADDRESS: 3379 Peachtree Rd. NE, Suite 300
Atlanta, Georgia 30326

The above information is believed to be correct. However, Boliden Intertrade Inc. makes no warranty and assumes no liability as to the accuracy or completeness.

HM
Revised
6-22-84
11-10-86
7-19-89
10-1-92
11-1-93

SULPHURIC ACID TRADING COMPANY (SATCO)
4041 Maritime Blvd., Hookers Point, Tampa, FL 33605
Telephone No. (813) 247-5674

MATERIAL SAFETY DATA SHEET

SECTION I PRODUCT NAME

PRODUCT: Sulphuric Acid 93.19% (66° Baume) 24 HOUR EMERGENCY ASSISTANCE
Sulphuric Acid 98.0%
CHEMICAL CHEMITREC 800-424-9300
SYNONYMS: Oil of Vitriol
CHEMICAL NFPA HAZARD RATING HEALTH 3
Least 0
FAMILY: Inorganic Acid Slight 1 FIRE 0
Moderate 2
FORMULA - H₂SO₄ CAS NUMBER: 7664-93-9 High 3 RE-
Extreme 4 ACTIVITY 2

SECTION II PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

50 mg/m³ or less: Full face-gas mask with acid/gas cartridge 80 mg/m³ or less: Type C full-face supplied air respirator (positive pressure/continuous flow mode). Greater than 80 mg/m³: Self-contained breathing apparatus. All respirators should be NIOSH or MSHA approved.

ENGINEERING CONTROLS

Adequate ventilation to keep sulphuric acid concentrations below applicable standards, when possible.

SKIN PROTECTION

Prevent contact with skin by use of acid-proof clothing, gloves, shoes and hand gear. (PVC material is recommended).

EYE PROTECTION

Use chemical splash goggles and full-face shield (eight-inch minimum).

OTHER PROTECTIVE EQUIPMENT

Eye wash and shower should be available in acid handling area.

SECTION III

HEALTH INFORMATION

OSHA Permissible Exposure Limit (PEL) 1 mg/m³ ACGIH Threshold
Limit Value(TLV) 1 mg/m³

LISTED IN: IARC Monographs Yes NTP List No

CARCINOGENICITY

The international agency for research on cancer (IARC) has classified "strong inorganic acid mists containing sulphuric acid" as a Group I carcinogen. Group I carcinogens are those in which there is sufficient evidence of carcinogenicity such that a causal relationship has been established between exposure to the agent, mixture, or exposure circumstances in human cancer. The specific association listed in the IARC monograph, (Volume 54: strong acid mist and other industrial exposures) is for upper respiratory tract cancers, especially laryngeal cancer.

The IARC Group I classification is for "strong inorganic acid mists containing sulfuric acid". The report specifically omitted listing sulfuric acid separately as a carcinogen because some of the epidemiologic studies reviewed by IARC concerned workers exposed to mixed exposures of several inorganic acid mists and other animal and human carcinogens as well.

There is no scientific consensus as yet on this designation as a Group I carcinogen. The epidemiology studies on which IARC depended for its review and conclusions may not have sufficiently accounted for other influences on the development of upper respiratory cancer such as personal habits (smoking and alcohol consumption) and exposure to mixtures of other known or suspected carcinogens.

OSHA HAZARD CLASSIFICATION PRIMARY ROUTE(S) OF ENTRY
Corrosive Eye and skin contact, inhalation
Water Reactive

SYSTEM OF OVEREXPOSURE

ACUTE: Contact with acid will burn any exposed area such as eyes, skin and respiratory tract.

CHRONIC: Long term exposures to sulphuric acid may cause skin lesions, traceobronchital, stomatitis, conjunctivitis, gastritis or erosion/discoloration of the teeth.

AGGRAVATED MEDICAL CONDITION
Chronic respiratory or skin disease

TOXIC DATA
LD₅₀ - 2140mg/kg (Oral - rat)

SECTION IV EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:

In case of contact, immediately flush eyes with water for at least 15 minutes, lifting the lower and upper eye lids occasionally. Get medical attention.

SKIN CONTACT:

In case of contact, immediately flush skin with water for at least 15 minutes. If sulphuric acid soaks through the clothing, remove the clothing immediately and flush the contaminated skin with water.

INHALATION:

Remove to fresh air. If discomfort continues, get medical attention.

INGESTION:

If conscious, give the person large quantities of water or milk to drink immediately. Do not induce vomiting. Get medical attention.

NOTE TO THE PHYSICIAN:

If severe exposure is suspected, observe for 48-72 hours for delayed onset of pulmonary edema. Do not give bicarbonate orally.

SECTION V INGREDIENTS

| COMPOSITION | % |
|--------------------------------|----|
| H ₂ SO ₄ | 93 |
| Water | 7 |

SECTION VI PHYSICAL DATA

| | | |
|--|--|----------------------------------|
| BOILING POINT (°F): 529 | MELTING POINT (°F): 50.6 | VAPOR PRESSURE (mmHg): <0.001 |
| SPECIFIC GRAVITY (H ₂ O = 1): 1.84 (@ 60" F) | % VOLATILE BY VOLUME: NA ² | VAPOR DENSITY (AJR = 1): 3.4 |
| SOLUBILITY IN WATER: Complete | EVAPORATION RATE (BUTYL ACETATE = 1): NA ² | MOLECULAR WEIGHT: 98.08 |
| PHYSICAL STATE: Liquid | DENSITY: 15.3 lb/gal (@ 60" F) | pH: 0.3 (one normal sol.) |

APPEARANCE AND ODOR:

Clear, colorless to light yellow, odorless, oily liquid.

SECTION VII

REACTIVITY

STABILITY:

U N S T A B L E

X STABLE

HAZARDOUS POLYMERIZATION:

 MAY OCCUR

X WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

Contact with metals will produce hydrogen, which is flammable.
Avoid contact with combustible materials, water, organic materials, nitrates, carbides, chlorates, cyanides, metallic sulfides, bases, other acids and metals.

HAZARDOUS DECOMPOSITION PRODUCTS

Sulphur oxides and hydrogen in the presence of metals.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED

Not combustible

FLAMMABLE LIMITS - % VOLUME IN AIR:

LOWER

UPPER

NA²

NA²

EXTINGUISHING MEDIA

Do not apply water to acid. Use dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Fire fighters should wear full protective clothing and self-contained breathing apparatus (positive pressure, if available).

AUTOIGNITION TEMPERATURES:

NA C

NA F

UNUSUAL FIRE AND EXPLOSION HAZARDS

May ignite other combustible material; violent reaction with water. Flammable, poisonous gases may accumulate in tanks and hopper cars.

SECTION IX

STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORING PRECAUTIONS

Hydrogen gas may form during storage and produce explosive conditions. Store in corrosion proof vessel and/or tank. Runoff to sewers may create fire or explosion hazard.

OTHER PRECAUTIONS

Safety showers and eye wash stations should be located in acid handling areas. See Section VII and VIII.

SECTION X

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION
8, Corrosive Material

REPORTABLE QUANTITY
RQ 1000 pounds

DOT PROPER SHIPPING NAME
Sulphuric Acid

UN/NA IDENTIFICATION NUMBER
UN 1830

STANDARD TRANSPORTATION COMMODITY CODE
49 300 40

OTHER REQUIREMENTS

When shipping, comply with DOT Hazardous Materials Regulations.

SECTION XI

EMERGENCY ACTION - (SPILL OR LEAK)

EMERGENCY ACTION:

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Ventilate closed spaces before entering them. Wear self-contained (positive pressure, **if** available) breathing apparatus and full protective clothing.

SMALL SPILLS :

Stop leak, if you can do it without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors but do not put water on leak **or** spilled areas.

LARGE SOILS :

Stop leak, if **you** can do without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors but do not put water on leak **or** spilled material. Keep combustibles away **from** spilled material. Keep out of sewers and streams. Dike spills for later clean up. Clean up only under supervision of an expert.

FOOTNOTES:

1. This NFPA rating applies **only** to **short term** exposure such as might be encountered under fire or related emergency conditions.
2. Note: NA means Not Applicable

DISCLAIMER

The information and recommendation herein are taken from data contained in independent, industry recognized references, including NIOSH, OSHA, ANSI and NFPA. This Sulphuric Acid Trading Company (SATCO) itself makes no guarantee, warranty or other representation concerning this substance, since the conditions of its use are beyond our control. Sulphuric Acid Trading Company (SATCO) disclaims any liability for loss or damage incurred in connection with the use of this substance.

FOR ADDITIONAL INFORMATION CONTACT:

JEFF TAYLOR (813) 247-5674



Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Page: 1

24-Hour Emergency Phone Number: 517-636-4400

Product: CAUSTIC SODA SOLUTION 50%, COMMERCIAL GRADE

Product Code: 15216

Effective Date: 04/14/99 Date Printed: 10/27/99 MSD: 005120

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|-------------------------|------------------|--------|
| sodium hydroxide (NaOH) | CAS# 001310-73-2 | 49-51% |
| sodium chloride (NaCl) | CAS# 007647-14-5 | 1% max |
| Water | CAS# 007732-18-5 | BAL |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 * Colorless liquid. Odorless. May react violently with water. *
 * Causes severe eye burns. Causes severe skin burns. Causes *
 * respiratory tract irritation. *

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Mists may cause eye irritation.

SKIN: Classified as corrosive according to DOT. Short single exposure may cause severe skin burns. A single prolonged exposure is not likely to result in absorption of harmful amounts.

INGESTION: May cause severe burns of the mouth and throat. Ingestion may cause gastrointestinal irritation or ulceration.

INHALATION: Mists may cause severe irritation of the upper respiratory tract (nose and throat).

(Continued on page 2 , over)

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MSD: 005120

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No relevant information found.

CANCER INFORMATION: No relevant information found.

TERATOLOGY (BIRTH DEFECTS): No relevant information found.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYE:

Wash eyes immediately and continuously until assistance arrives for transport to medical facility: wash enroute, if possible. If medical assistance *is* not immediately available, wash for 30 minutes and seek medical attention immediately.

SKIN: Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: May cause tissue destruction/stricture, if lavage is performed, suggest endotracheal and/or esophageal control. Material is strong alkali. If burn is present, treat as any thermal burn, after decontamination. For burns of skin only. Eye irrigation may be necessary for an extended period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: None

METHOD USED: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABILITY LIMITS

(Continued on page 3)

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Product Code: 15216

Effective Date: 04/14/99

Date Printed: 10/27/99

MSD: 005120

LFL: Not applicable

UFL: Not applicable

HAZAROUS COMBUSTION PRODUCTS: Not applicable.

OTHER FLAMMABILITY INFORMATION: Product reacts with water.

Reaction may produce heat and/or gases. This reaction may be violent. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. This material does not burn.

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable fire extinguishing agent for that fire.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants boots and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection, consider fighting fire from a remote location. For protective equipment in post-fire or non-fire clean up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Evacuate area. Clear non-emergency personnel from area. Ventilate area of spill or leak. See MSDS, Section 10, for information on Stability and Reactivity.

PROTECT THE ENVIRONMENT: Contain material to prevent contamination of soil, surface water or ground water.

CLEANUP: Dike spills immediately. Carefully flush small spills of caustic soda solution with water. Attempt to neutralize final traces of caustic soda with dilute acid, preferably acetic acid.

7. HANDLING AND STORAGE

HANDLING:

(Continued on page 4 , over)

(R) Indicates a Trademark of The Dow Chemical Company

Product: CAUSTIC SODA SOLUTION 502, COMMERCIAL GRADE
Product Code: 15216

Effective Oate: 04/14/99

Oate Printed: 10/27/99

MSD: 005120

SPECIAL PRECAUTIONS FOR DILUTING CAUSTIC SODA SOLUTION:

1. ALWAYS add caustic soda solution to water with constant agitation. NEVER add water to the caustic soda solution.
2. The water should be lukewarm (80-100F). NEVER start with hot or cold water.

The addition of caustic soda to liquid will cause a rise in temperature. If caustic soda becomes concentrated in one area, is added too rapidly, or is added to hot or cold liquid, a rapid temperature increase can result in DANGEROUS mists, boiling or spattering which may cause an immediate VIOLENT ERUPTION.

STORAGE: Store away from incompatible materials. Store in a dry place. Keep containers tightly closed when not in use. See Stability & Reactivity, Section 10, of this MSDS. Store above 60F (16C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

Use chemical goggles. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. If respiratory irritation is experienced, use an approved air-purifying respirator.

(Continued on page 5)

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Product: CAUSTIC SODA SOLUTION 50%, COMMERCIAL GRADE

Product Code: 15216

Effective Date: 04/14/99

Date Printed: 10/27/99

MSD: 005120

EXPOSURE GUIDELINE(S): Sodium hydroxide: OSHA PEL and ACGIH TLV are 2 mg/m³ Ceiling.

PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless to slightly hazy.
ODOR: Odorless.
VAPOR PRESS: 1.5 mmHg, 0.2kPa @ 20C
VAPOR DENSITY: Not applicable
BOILING POINT: Approximately 293F, 145C
SOLUBILITY IN WATER: Water solution
SPECIFIC GRAVITY: @ 20C (Dens.) 1.52 g/ml
FREEZING POINT: Approximately 58F, 14C
PH: 14

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See storage section.

CONDITIONS TO AVOID: Avoid temperature below 85F.

INCOMPATIBILITY WITH OTHER MATERIALS: Heat is generated when mixed with water. Spattering and boiling can occur. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc. Avoid contact with acids, halogenated organics, organic nitro compounds, glycols. Caustic soda solution reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

(Continued on page 6 , over)

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MSD: 005120

INGESTION: Single dose oral LD50 has not been determined.

MUTAGENICITY: No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING: Based on information for sodium hydroxide. No bioconcentration is expected because of the relatively high water solubility. Partitioning from water to n-octanol is not applicable.

DEGRADATION & PERSISTENCE: Based on information for sodium hydroxide. Biodegradation is not applicable.

ECOTOXICITY: Based on information for sodium hydroxide. Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species). May cause pH shifts outside the range of 5-10; this change may be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES USING OR USING THROUGH THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 517-832-1556 for further details.

14. TRANSPORT INFORMATION

(Continued on page 7)

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Product: CAUSTIC SODA SOLUTION 50%, COMMERCIAL GRADE
Product Code: 15216

Effective Date: 04/14/99 Date Printed: 10/27/99 MSD: 005120

U.S. DOT Classification/Description:
For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your Oow representative.

CANADIAN INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
 - A reactive hazard
-

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be

(Continued on page 8 , over)
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Product: CAUSTIC SODA SOLUTION 50%, COMMERCIAL GRADE
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Effective Date: 04/14/99 Date Printed: 10/27/99 MSD: 005120

REGULATORY INFORMATION (CONTINUED)

listed on the TSCA inventory.

The CAS number (s) for TSCA is (are) :

CAS# 001310-73-2

CAS# 000497-19-8

CAS# 007647-14-5

CAS# 007732-18-5

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

| CHEMICAL NAME | CAS NUMBER | LIST |
|-----------------------------|-------------|--------------------|
| SODIUM HYDROXIDE (SOLUTION) | 001310-73-2 | NJ1 NJ3 PA1 PA3 |

NJ1=New Jersey Special Health Hazard Substance (present at greater than or equal to 0.1%).

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND) :

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

Category:

| Chemical Name | CAS# | RQ | % in Product |
|---------------|------|----|--------------|
|---------------|------|----|--------------|

(Continued on page 9)

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Product: CAUSTIC SODA SOLUTION 50%, COMMERCIAL GRADE
Product Code: 15216

Effective Oate: 04/14/99 Oate Printed: 10/27/99 MSD: 005120

REGULATORY INFORMATION (CONTINUED)

| | | | |
|------------------|-------------|------|--------|
| ----- | ----- | --- | ----- |
| Sodium hydroxide | 001310-73-2 | 1000 | 49-51% |

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Mat'erials Information System (WHMIS) Classification for this product is:

E - corrosive to metal or skin
 Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZAROUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

| | | |
|------------------|------------------|---------------|
| COMPONENTS: | CAS # | AMOUNT (%w/w) |
| Sodium hydroxide | CAS# 001310-73-2 | 49-51% |

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

| | |
|--------------|---|
| Health | 3 |
| Flammability | 0 |
| Reactivity | 1 |

MSDS STATUS: Revised Section 2.

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.



Arch Chemicals, Inc.

**MATERIAL
SAFETY DATA**

| | |
|---|----------------|
| FOR ANY EMERGENCY, CALL 24 HOURS/7 DAYS: | 1-800-654-6911 |
| FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: | 1-800-424-9300 |
| FOR ALL MSDS QUESTIONS & REQUESTS, CALL MSDS CONTROL: | 1-800-511-MSDS |

PRODUCT NAME: AQUA GUARD, GRANULAR

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 02-04-2004 SUPERCEDES: 10-01-2003
MSDS NO: 00002-0236-24203

MANUFACTURER: Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204

SYNONYMS: None
CHEMICAL FAMILY: Hypochlorite
FORMULA: Not Applicable/Mixture
DESCRIPTION: Sanitizer and oxidizer
OSHA HAZARD CLASSIFICATION: Oxidizer, toxic by inhalation, corrosive,
skin and eye hazard, lung toxin

SECTION 2 COMPONENT DATA

PRODUCT COMPOSITION

CAS or CHEMICAL NAME: Calcium hypochlorite
CAS NUMBER: 7778-54-3
PERCENTAGE RANGE: 60-80%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: 3 mg/cubic meter (ceiling) as Chlorine:Manufacturer's
Internal Exposure Standard

CAS or CHEMICAL NAME: Sodium chloride
CAS NUMBER: 7647-14-5
PERCENTAGE RANGE: 10-20%
HAZARDOUS PER 29 CFR 1910.1200: No
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Calcium chlorate
CAS NUMBER: 10137-74-3
PERCENTAGE RANGE: 0-5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Calcium chloride
CAS NUMBER: 10043-52-4
PERCENTAGE RANGE: 0-5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS: None Established

CAS or CHEMICAL NAME: Calcium hydroxide

CAS NUMBER: 1305-62-0
PERCENTAGE RANGE: 0-4%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

| | OSHA (PEL) | | ACGIH (TLV) | |
|----------|------------|----------------|-------------|----------------|
| | ppm | mg/cubic-meter | ppm | mg/cubic-meter |
| TWA: | None | | | 5 |
| CEILING: | None | | None | |
| STEL: | None | | None | |

CAS or CHEMICAL NAME: Calcium carbonate
CAS NUMBER: 471-34-1
PERCENTAGE RANGE: 0-5%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

| | OSHA (PEL) | | ACGIH (TLV) | |
|----------|------------|--|-------------|----------------|
| | ppm | mg/cubic-meter | ppm | mg/cubic-meter |
| TWA: | | 15 (Total Dust) 5 (Respirable fraction) | | 10 |
| CEILING: | None | | None | |
| STEL: | None | | None | |

CAS or CHEMICAL NAME: Water
CAS NUMBER: 7732-18-5
PERCENTAGE RANGE: 5.5-10%
HAZARDOUS PER 29 CFR 1910.1200: No
EXPOSURE STANDARDS: None Established

SECTION 3 PRECAUTIONS FOR SAFE HANDLING AND STORAGE

DO NOT TAKE INTERNALLY. AVOID INHALATION OF DUST AND FUMES. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE CONDITIONS: Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g., other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

DO NOT STORE AT TEMPERATURES ABOVE: 52 Deg.C (125 Deg.F)
Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

PRODUCT STABILITY AND COMPATIBILITY

SHELF LIFE LIMITATIONS: Shelf life (that is, the period of time before the product goes below stated label strength) is determined by storage time and temperatures. Do not store product at temperatures above 52 Deg.C (125 Deg.F). When stored under moderate temperature conditions, product will maintain stated label strength for approximately two years. Prolonged storage at 35 Deg.C (95 Deg.F) or above will significantly shorten the shelf life. Storage in a climate-controlled storage area or building is recommended in those areas where extremes of high temperature occur.

INCOMPATIBLE MATERIALS FOR PACKAGING: Product packaging must be clean and free of contamination by other materials, including, e.g., other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-

ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Do not allow product to come in contact with other materials, including, e.g., other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

SECTION 4 PHYSICAL DATA

APPEARANCE: White, free flowing powder
FREEZING POINT: Not Applicable
BOILING POINT: Not Applicable
DECOMPOSITION TEMPERATURE: Onset - Approximately 170-180 Deg.C
(338-356 Deg.F)
SPECIFIC GRAVITY: Not Applicable
BULK DENSITY: 0.8 g/cc, loose
pH @ 25 DEG.C: 10.4-10.8 (1% solution)
VAPOR PRESSURE @ 25 DEG.C: Not Applicable
SOLUBILITY IN WATER: Approximately 18% @ 25 Deg.C (Product also contains calcium hydroxide and calcium carbonate which will leave a residue.)
VOLATILES, PERCENT BY VOLUME: Not Applicable
EVAPORATION RATE: Not Applicable
VAPOR DENSITY: Not Applicable
MOLECULAR WEIGHT: 143 (Active ingredient)
ODOR: Chlorine-like
COEFFICIENT OF OIL/WATER DISTRIBUTION: Not Applicable

SECTION 5 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: Wear NIOSH approved respirator if dusts are created.
VENTILATION: Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure good general ventilation.
SKIN AND EYE PROTECTIVE EQUIPMENT: Wear gloves, and safety glasses to avoid skin and eye contact. Where industrial use occurs, chemical goggles or full impermeable suit may be required.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: NIOSH approved full face-piece respirator with chlorine cartridges and dust/mist prefilter.
PROTECTIVE CLOTHING TYPE: Neoprene
(This includes: gloves, boots, apron, protective suit)

SECTION 6 FIRE AND EXPLOSION HAZARD INFORMATION

This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire. This product is a strong oxidizer which is capable of intensifying a fire once started.

FLAMMABILITY DATA:

FLAMMABLE: No
COMBUSTIBLE: No
PYROPHORIC: No
FLASH POINT: Not Applicable
AUTOIGNITION TEMPERATURE: Not Applicable
FLAMMABLE LIMITS AT NORMAL ATMOSPHERIC TEMPERATURE AND PRESSURE (PERCENT

VOLUME IN AIR): UEL - Not Applicable

LEL - Not Applicable

NFPA RATINGS:

Health: 3
Flammability: 0
Reactivity: 1
Special Hazard Warning: OX (OXIDIZER)

HMIS RATINGS:

Health: 3
Flammability: 0
Reactivity: 1

EXTINGUISHING MEDIA:

Water only

FIRE FIGHTING TECHNIQUES AND COMMENTS:

Use water to cool containers exposed to fire. Also see Section 11.

OTHER: Do not use dry extinguishers containing ammonium compounds

SECTION 7 REACTIVITY INFORMATION

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:

TEMPERATURES ABOVE: 170 Deg.C (338 Deg.F)

MECHANICAL SHOCK OR IMPACT: No

ELECTRICAL (STATIC) DISCHARGE: No

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine gas

OTHER CONDITIONS TO AVOID: Storage at temperatures >125 Deg.F (52 Deg.C)

Prevent ingress of humidity and moisture into container or package.
Always close the lid.

SUMMARY OF REACTIVITY: (See also Section 6)

OXIDIZER: Yes

PYROPHORIC: No

ORGANIC PEROXIDE: No

WATER REACTIVE: No

OTHER: Arch calcium hypochlorite products meet the specifications of ASTM method E-487-74 as set forth in 49 C. F. R. Sec. 173.21, Title 43-Code of Federal Regs. (DOT Regs.)

SECTION 8 FIRST AID

EYES: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

SKIN: Immediately flush with water for at least 15 minutes. Call a physician. If clothing comes in contact with the product, it should be removed immediately and laundered before reuse.

INGESTION: Immediately drink large quantities of water. DO NOT induce vomiting. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

INHALATION: Remove victim to fresh air. Support respiration if needed.

Call a physician.

SECTION 9 TOXICOLOGY AND HEALTH INFORMATION

ROUTES OF ABSORPTION

Inhalation, skin and eye contact, ingestion

WARNING STATEMENT AND WARNING PROPERTIES

MAY BE FATAL IF SWALLOWED. AVOID BREATHING DUST OR FUMES. HARMFUL IF PRODUCT IS INHALED IN HIGH CONCENTRATIONS. CAUSES SKIN, EYE, DIGESTIVE TRACT AND RESPIRATORY TRACT BURNS.

HUMAN RESPONSE DATA

ODOR THRESHOLD: Approximately 1.4 mg/cubic-meter, based on odor threshold of chlorine.

IRRITATION THRESHOLD: Approximately 13-22 mg/cubic meter, based on the irritation threshold of chlorine.

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: Approximately 45 mg/cubic-meter, based on IDLH concentration of chlorine.

SIGNS, SYMPTOMS, AND EFFECTS OF EXPOSURE

INHALATION

ACUTE:

Inhalation of dust or vapor from this product can be irritating to the nose, mouth, throat and lungs. In confined areas, mechanical agitation can result in high levels of dust, and reaction with incompatible materials (as listed in Section VII) can result in high concentrations of chlorine vapor, either of which may result in burns to the respiratory tract, producing lung edema, shortness of breath, wheezing, choking, chest pains, impairment of lung function and possible permanent lung damage.

CHRONIC:

Chronic (repeated) inhalation exposure may cause impairment of lung function and permanent lung damage.

EYE

Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

SKIN

ACUTE:

Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause permanent damage.

CHRONIC:

Effects from chronic skin exposure would be similar to those from single exposure except for effects secondary to tissue destruction.

INGESTION

ACUTE:

Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Due to the corrosive nature of this product, ingestion may be fatal.

CHRONIC:

There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Asthma, respiratory and cardiovascular disease

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY

None known or reported

ANIMAL TOXICOLOGY

ACUTE TOXICITY:

Inhalation LC 50: Approximately 1300 mg/cubic-meter (1 hr., rat) -
based on acute inhalation toxicity for chlorine
Oral LD 50: 850 mg/kg. (rat)
Dermal LD 50: > 2 g/kg. (rabbit)
Causes burns to eyes and skin

CHRONIC TOXICITY:

There are no known or reported effects from repeated exposure.

REPRODUCTIVE TOXICITY:

Calcium hypochlorite has been tested for teratogenicity in laboratory animals. Results of this study have shown that calcium hypochlorite is not a teratogen.

CARCINOGENICITY:

This product is not known or reported to be carcinogenic by any reference source, including: IARC, OSHA, NTP or EPA. One hundred mice were exposed dermally 3 times a week for 18 months to a solution of calcium hypochlorite. Histopathological examination failed to show an increased incidence of tumors.

IARC (International Agency for Research on Cancer) reviewed studies conducted with several hypochlorite salts. IARC has classified hypochlorite salts as having inadequate evidence for carcinogenicity to humans and animals. IARC therefore considers hypochlorite salts to be not classifiable as to their carcinogenicity to humans.

MUTAGENICITY:

Calcium hypochlorite has been tested in the Dominant lethal assay in male mice, and it did not induce a dominant lethal response. Calcium hypochlorite has been reported to produce mutagenic activity in two in vitro assays. It has, however, been shown to lack the capability to produce mutations in animals based on results from the micronucleus assay. In vitro assays frequently are inappropriate to judge the mutagenic potential of bactericidal chemicals due to a high degree of cellular toxicity. The concentration which produces mutations in these in vitro assays is significantly greater than the concentrations used for disinfection. Based on high cellular toxicity in in vitro assays and the lack of mutagenicity in animals, the risk of genetic damage to humans is judged not significant.

AQUATIC TOXICITY:

Bluegill, 96 hr. LC50: 0.088 mg/l (nominal, static)
Rainbow trout, 96 hr. LC50: 0.16 mg/l (nominal, static)
Daphnia magna, 48 hr. LC50: 0.11 mg/l (nominal, static)

TOXICITY TO WILDLIFE:

Bobwhite quail, dietary LC50: > 5,000 ppm
Mallard ducklings, dietary LC50: > 5,000 ppm
Bobwhite quail, oral LD50: 3474 mg/kg.

SECTION 10 TRANSPORTATION INFORMATION

THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL.

DOT DESCRIPTION FROM THE HAZARDOUS MATERIALS TABLE 49 CFR 172.101:
LAND (U.S. DOT): CALCIUM HYPOCHLORITE, HYDRATED MIXTURES, 5.1,

WATER (IMO): SAME AS ABOVE

AIR (IATA/ICAO): SAME AS ABOVE

HAZARD LABEL/PLACARD: OXIDIZER

REPORTABLE QUANTITY: 10 lbs. (Per 49 CFR 172.101, Appendix)

EMERGENCY GUIDE NO: 140

SPECIAL COMMENT: Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

SECTION 11 SPILL AND LEAKAGE PROCEDURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

REPORTABLE QUANTITY: 10 lbs. (as Calcium hypochlorite) Per 40 CFR 302.4

SPILL MITIGATION PROCEDURES:

Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.

AIR RELEASE: Vapors may be suppressed by the use of a water fog. All water utilized to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or treatment.

WATER RELEASE: This material is heavier than water. This material is soluble in water. Monitor all exit water for available chlorine and pH. Advise local authorities of any contaminated water release.

LAND SPILL: Contact at 1-800-654-6911 immediately.

DANGER: All spills of this product should be treated as contaminated. Contaminated product may initiate a chemical reaction which may spontaneously ignite any combustible material present, resulting in a fire of great intensity. In case of a spill, separate all spilled product from packaging, debris and other material. Using a clean broom or shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labelled. Disposal containers made of plastic or metal are recommended. Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors. Place all damaged packaging material in a disposal container of water to assure decontamination (i.e. removal of all product) before disposal. Place all undamaged packaging in a clean, dry container properly marked and labelled. Call for disposal procedures.

SPILL RESIDUES:

Dispose of per guidelines under Section 12, WASTE DISPOSAL.

This material may be neutralized for disposal; you are requested to contact at 800-654-6911 before beginning any such operation.

PERSONAL PROTECTION FOR EMERGENCY SPILL AND FIRE-FIGHTING SITUATIONS:

Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air respirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment.

SECTION 12 WASTE DISPOSAL

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.

As a hazardous solid waste, it must be disposed of in accordance with local, state, and federal regulations in a permitted hazardous waste treatment, storage and disposal facility by treatment.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

SECTION 13 ADDITIONAL REGULATORY STATUS INFORMATION

TOXIC SUBSTANCES CONTROL ACT:

This substance is listed on the Toxic Substances Control Act inventory.

NSF LIMITS: NSF Maximum Drinking Water Use Concentration - 15 mg/l
as calcium hypochlorite product

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT TITLE 3:

HAZARD CATEGORIES, PER 40 CFR 370.2:

HEALTH:

Immediate (Acute)

PHYSICAL:

Fire and Reactivity

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APP.A:

EXTREME HAZARDOUS SUBSTANCE - THRESHOLD PLANNING QUANTITY:

None Established

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45:

None Established

SECTION 14 ADDITIONAL INFORMATION

REGULATED UNDER FIFRA, USDA & FDA

MSDS REVISION STATUS: Revision to Section 11

SECTION 15 MAJOR REFERENCES

1. Ishidate, M. et al. (1984). Primary mutagenicity screening of food additives currently used in Japan. *Fd. Chem. Toxicol.* 22:623-636.
2. Hayashi, M. et al. (1988). Micronucleus tests in mice on 39 food additives and eight miscellaneous chemicals. *Fd. Chem. Toxicol.* 26:487-500.
3. Report on the Acute Inhalation in Rats, Acute Oral LD50 in Rats, Eye Irritation in Rabbits, Dermal Irritation in Rabbits, and Acute Dermal

- Toxicity in Rabbits of HTH. Biometric Testing Laboratories, Inc., Whippany, NJ. Experiment Reference #A-1490 (RC-30406), February 9, 1975.
4. Report on the Teratogenic Study with Calcium Hypochlorite in Albino Rats. Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #B758b, April 18, 1972.
 5. Report on the Mutagenic Study with Monosodium Cyanurate and Calcium Hypochlorite (HTH) in Albino-Mice. Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #E756. April 18, 1972.
 6. Chemical Hazard Summary No. 20: Calcium Hypochlorite. Canadian Centre for Occupational Health and Safety, Hamilton, Ontario, Canada L8N 1H6. December 1986.
 7. Report on 18-Month Dermal Carcinogenicity Study with Monosodium Cyanuric Acid and HTH in Swiss White Mice. Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #651-00751, April 9, 1974.
 8. Report to PPG Industries, Inc. on the Acute Toxicity Studies with PITCHLOR (Granular Calcium Hypochlorite). Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #601-06659, May 7, 1975.
 9. Report on the Acute Toxicity of HTH to Bluegill, Rainbow Trout and the Water Flea. E G & G, Bionomics Aquatic Toxicology Laboratory, Wareham, MA, July 1977.
 10. Report on the 8-Day Dietary LD50 Study with HTH in Mallard Ducklings. Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #651-06184, May 15, 1975.
 11. Report on the 8-Day Dietary LC50 with HTH in Bobwhite Quail. Industrial Bio-Test Laboratories, Inc., Northbrook, IL, IBT #651-06183.
 12. Final Report on the Acute Oral LD50 of Calcium Hypochlorite in Bobwhite Quail. Wildlife International, LTD., Easton, MD, Project #133-107, July 15, 1977.
 13. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Vol. 52: Chlorinated Drinking Water; Chlorination By-products; Some Other Halogenated Compounds; Cobalt and Cobalt Compounds. World Health Organization, International Agency for Research on Cancer (IARC), Lyon, France, 1991.
 14. Sittig, Marshall, Handbook of Toxic and Hazardous Chemicals and Carcinogens, 2nd Ed., Noyes Publications, Park Ridge, NJ, 1985.
 15. Chemical Hazard Response Information System (CHRIS), Vol. 11, U.S. Coast Guard, Washington, D.C., 1984.
 16. Chlorine and Your Health. The Chlorine Institute, Inc., Washington, D.C., August 1988.
 17. ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices, sixth Edition, 1991. American Conference of Governmental Industrial Hygienists, Inc., Cincinnati, OH.
 18. Amore, John E. and Earl Hautala, Odor as an Aid to Chemical Safety: Odor Thresholds Compared with Threshold Limit Values and Volatiles for 214 Industrial Chemicals in Air and Water Dilution. Journal of Applied Toxicology, Vol. 3, No. 6, pp. 272-290, 1983.
 19. Forsberg, K., and S.Z. Mansdorf, Quick Selection Guide to Chemical Protective Clothing, Second Edition, Van Nostrand Reinhold, N.Y., 1993.
- Additional references are available upon request

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICAL MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

**Arch Chemicals, Inc.
MSDS Control
501 Merritt 7
PO Box 5204
Norwalk, CT 06856-5204**

To: Chevone Peterson
 From: Chad Denney
 Date: June 1,2004

Re: Proposals/Quote No. Q-040296
 Chemicals for Utilities – Annual

Chevone, I will go section by section to give our recommendations.

Section 1, Aluminum Sulfate

Please award to General Chemical, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|-----------------------|--------------|
| Greenmeadows WTP | OD53627-5240 |
| Olga WTP | OD53601-5240 |
| Waterway Estates WWTP | OD53623-5240 |
| College Pkwy WTP | OD53626-5240 |
| Fiesta Village WWTP | OD53624-5240 |

Section 2. Anhydrous Ammonia

Please award to Laroche Industries, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|----------------------|--------------|
| Greenmeadows WTP | OD53627-5240 |
| Olga WTP | OD53601-5240 |
| Bartow WTP | OD53608-5240 |
| Pinewoods WTP | OD53619-5240 |
| Waterway Estates WTP | OD53625-5240 |
| Corkscrew WTP | OD53618-5240 |

Section 3, Calcium Hypochlorite

Please award to Dumont, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|-----------------------|--------------|
| Greenmeadows WTP | OD53627-5240 |
| Olga WTP | OD53601-5240 |
| Waterway Estates WWTP | OD53623-5240 |
| College Pkwy WTP | OD53626-5240 |
| Fiesta Village WWTP | OD53624-5240 |
| Fort Myers Beach WWTP | OD53605-5240 |
| Gateway WWTP | OD53628-5240 |
| Pinewoods WTP | OD53619-5240 |
| Waterway Estates WTP | OD53625-5240 |
| Corkscrew WTP | OD53618-5240 |
| Bartow WTP | OD53608-5240 |
| Detar Warehouse | OD53616-5240 |
| Highpoint WWTP | OD53652-5240 |

Section 4, Hydrated Lime

Please award to Chemical Lime, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|------------------|--------------|
| College Pkwy WTP | OD53626-5240 |
|------------------|--------------|

Section 5 Polymer

Please award to Polydyne, they were the lowest bidder and they meet our specifications. This is a conditional award, They still have to meet the specification on running jar test and doing an in plant test.

The money will come out of the following account strings;

| | |
|---------------|--------------|
| Olga WTP | OD53601-5240 |
| Corkscrew WTP | OD53618-5240 |

Section 5A Polymer

Please award to Fort Bend, they were the lowest bidder and they meet our specifications. This is a conditional award. They still have to meet the specification on running jar test and doing an in plant test.

The money will come out of the following account strings;
Waterway Estates WTP OD53625-5240

Section 5B Polymer, Cationic Emulsion

Please award to Ciba Speciality Chemicals, they were the lowest bidder and they meet our specifications. This is a conditional award. They still have to meet the specification on running jar test and doing an in plant test.

The money will come out of the following account strings;
Fiesta Village WWTP OD53624-5240
Fort Myers Beach WWTP OD53605-5240

Section 6 Polyphosphate

Univar is the lowest bidder. We still need some documentation that proves they meet our specifications before we can award this product.

The money will come out of the following account strings;
Olga WTP OD53601-5240
Corkscrew WTP OD53618-5240

Section 7 Powdered Activated Carbon

This section is currently under a quote and contract and doesn't need to be awarded at this time

Section 8 Quicklime, Bulk, Powder to 3/8

Please award to Chemical Lime, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|----------------------|--------------|
| Greenmeadows WTP | OD53627-5240 |
| Olga WTP | OD53601-5240 |
| Waterway Estates WTP | OD53625-5240 |
| Corkscrew WTP | OD53618-5240 |

Section 8A, Quicklime. Foundry

Please award to Chemical Lime, they were the only bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|-----------------------|--------------|
| Waterway Estates WWTP | OD53623-5240 |
|-----------------------|--------------|

Section 9, Sodium Chlorite

Please award to Altiva, they were the only bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|----------|--------------|
| Olga WTP | OD53601-5240 |
|----------|--------------|

Section 10, Sodium Hydroxide 50%

Please award to Allied Universal, they were the lowest bidder and they meet our specifications.

Pinewoods was not included on the bid package. They use approximately 700 tons per year. That would make the total usage 790 tons per year. Pinewoods can take a whole truckload at a time.

The money will come out of the following account strings;

| | |
|----------------------|--------------|
| Olga WTP | OD53601-5240 |
| Waterway Estates WTP | OD53625-5240 |
| Pinewoods WTP | OD53619-5240 |

Section 11, Sodium Hydroxide 25%

Please award to Allied Universal, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|-----------------------|--------------|
| Fiesta Village WWTP | OD53624-5240 |
| Fort Myers Beach WWTP | OD53605-5240 |

Section 12, Sulfur Dioxide

Please award to Allied Universal, they were the lowest bidder and they meet our specifications.

The money will come out of the following account strings;

| | |
|---------------------|--------------|
| Fiesta Village WWTP | OD53624-5240 |
|---------------------|--------------|

Section 13, Sulfuric Acid, Bulk

We are not going to award this now. We need to rework the bid specifications and put it out for bid again.

The annual usage is different from the quote package it should be 1,600 tons and Pinewoods WTP was left off of the quote as a delivery site.

Should you have any questions please call.

From: Chad Denney
To: Peterson, Chevone
Date: 6/7/04 11:54AM
Subject: Polyphosphate

Chevone, since Univar did not meet the bid specs please award the quote to the next lowest bidder meeting specs. That is Calciquest.

Thanks
Chad

C C Hill, Thomas