SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME               CHEMICAL NAME
Disodium EDTA              Ethylenediaminetetraacetic acid, disodium salt

SYNONYM
Disodium EDTA hydrate

CAS #                    MIXTURE
C10 H14 N2 O8 Na2.2H20     Aminocarboxylic acid salt

DISTRIBUTORS NAME       PRODUCT/TECHNICAL INFORMATION
Lotioncrafter            1-360-376-8008

ADDRESS            MEDICAL/HANDLING EMERGENCY
532 Point Lawrence Road 1-914-693-6946 Product Safety
Olga, WA 97279

COUNTRY        TRANSPORTATION EMERGENCY
USA             CHEMTREC 1-800-424-9300

PRODUCT USE       REVISION DATE
Sequestering agent

ISSUE DATE       REVISION NO.
6/24/2004

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION PERCENT CAS#
Disodium EDTA         98.000-99.000    139-33-3
Trisodium NTA          0.700-1.000   5064-31-3

SECTION 3. HAZARDS IDENTIFICATION

Appearance & Odor
White, odorless, free flowing powder.

STATEMENT OF HAZARDS
WARNING!
CAUSES EYE AND RESPIRATORY TRACT IRRITATION.
CONTAINS MATERIAL WHICH MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA.

Fire & Explosion Hazards
Not considered a fire hazard. When involved in a fire, does not contribute any unusual hazards.

Potential for dust explosion may exist. This product is not defined as flammable or combustible.
Depending upon conditions, dusts may be sensitive to static discharge. Avoid possibility of dry powder and friction causing static electricity in presence of flammables. (See NFPA-77, Chpt. 6)

Primary Route of Exposure
Skin and eye contact and inhalation of dust are the principal routes of exposure to this product.
SECTION 3. HAZARDS IDENTIFICATION (CONTINUED)

Inhalation Acute Exposure
Inhalation of powder or dust may cause respiratory tract irritation.

Skin Contact. ACUTE
Skin contact may cause irritation.

Eye contact -ACUTE
Eye contact may cause irritation.

Ingestion. ACUTE
Acute ingestion effects of this product are not known.

CARCINOGENICITY

<table>
<thead>
<tr>
<th>IARC</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Inhalation First Aid
Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

Skin Contact- First Aid
Remove contaminated clothing and equipment. Wash all affected areas with plenty of soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Wash any contaminated clothing and shoes before reuse. Obtain medical advice if irritation occurs.

Eye Contact -First Aid
Flush eyes with large quantities of running water for a minimum of 15 minutes. If the victim is wearing contact lenses, remove them. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time. Get medical attention if eye irritation occurs.

Ingestion - First Aid
Give several glasses of water. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give fluids again. Seek medical attention if health effects occur.

Medical Conditions Aggravated
There are no data available that address medical conditions that are generally recognized as being aggravated by exposure to this product.

Note to Physician
No specific antidote is known. Based on the individual reactions of the patient, the physician’s judgment should be used to control symptoms and clinical conditions.
Lotioncrafter Disodium EDTA

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT  FLASH METHOD
N/D F  N/D C  Not applicable

AUTO IGNITION TEMPERATURE  UPPER EXPLOSION LIMIT
N/D F  N/D C  N/D

Extinguishing Media
This product is noncombustible. If involved in a fire, extinguishing agents suitable for surrounding materials should be use.

Fire Fighting Procedures
As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Fire & Explosion Hazards
Not considered a fire hazard. When involved in a fire, does not contribute any unusual hazards. Potential for dust explosion may exist. This product is not defined as flammable or combustible. Depending upon conditions, dusts may be sensitive to static discharge. Avoid possibility of dry powder and friction causing static electricity in presence of flammables. (See NFPA-77, Chpt. 6)

Other Fire + Explosion Hazards
No other explosion hazards of this product are known.

Hazardous Products/Combustion
Oxides of carbon and nitrogen are produced during the decomposition of this product.

<table>
<thead>
<tr>
<th>NFPA HEALTH RATING</th>
<th>NFPA FLAMMABILITY RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*</td>
<td>1</td>
</tr>
</tbody>
</table>

NFPA REACTIVITY RATING  NFPA OTHER
0  NA

SECTION 6. ACCIDENTAL RELEASE MEASURES

Cleanup
Stop source of spill. Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling
Avoid prolonged and/or repeated skin and eye contact and inhalation. Minimize the generation or dust when handling this product.

Storage
Keep container closed and dry. Suitable for any general chemical storage area. Isolate from strong oxidizing agents. Store in PVC, PE, stainless steel or bituminized tanks. Avoid contact with aluminum, copper, copper alloys and nickel.

MAXIMUM STORAGE TEMPERATURE
N/D F  N/D C

General Comments
Containers should not be opened until ready for use.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection
If handling operations lead to dusting, wear a NIOSH-approved half-mask, air purifying respirator with dust, mist and fume filters. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the workshift) to assure breakthrough exposure does not occur.

Skin Protection
Skin contact with this product should be minimized through the use of suitable protective clothing and gloves selected with regard for use condition exposure potential.

Eye Protection
Indirect vented, dust-tight goggles are recommended if dust is generated when handling this product.

Ventilation Protection
Special ventilation is usually not required under normal use conditions. General plant ventilation should be adequate in most cases.

Other Protection
All food and smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed.

APPLICABLE EXPOSURE LIMITS
In addition to any exposure limits displayed below, exposures to this product should be controlled below limits established for “Particulates Not Otherwise Classified (PNOC):”
10 mg/m³ – ACGIH
15 mg/m³ (total dust); 5 mg/m³ (respirable fraction) – OSHA

EXPOSURE LIMITS/REGULATORY INFORMATION (IN MG/M³)

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Reg. Agcy</th>
<th>PEL</th>
<th>TLV</th>
<th>TWA</th>
<th>STEL</th>
<th>CEIL</th>
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<tbody>
<tr>
<td>Disodium EDTA</td>
<td>OSHA</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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<tr>
<td></td>
<td>NIOSH</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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</tr>
<tr>
<td></td>
<td>SUPPLIER</td>
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<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
</tr>
<tr>
<td>Trisodium NTA</td>
<td>OSHA</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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</tr>
<tr>
<td></td>
<td>ACGIH</td>
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<td>N/D</td>
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<tr>
<td></td>
<td>NIOSH</td>
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<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
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<tr>
<td></td>
<td>SUPPLIER</td>
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<td>N/D</td>
<td>N/D</td>
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</tbody>
</table>

Legend:

Exposure limit Descriptions

CEIL  Ceiling Exposure Limit
PEL   Permissible Exposure Limit
STEL  Short Term Exposure Limit
TLV   Threshold Limit Value
TWA   Time Weighted Average
N/D   Not Determined
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
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<tr>
<td>EVAPORATION RATE</td>
<td>N/D</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>N/D F N/D C</td>
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<tr>
<td>SPECIFIC GRAVITY</td>
<td>N/D</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>AP 100 g/l (20°C, water)</td>
</tr>
<tr>
<td>COEFFICIENT OF OIL/WATER</td>
<td>N/D</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>230.00 F 110.00 C (Losing of crystallization)</td>
</tr>
<tr>
<td>CLOUD POINT</td>
<td>N/D F N/D C</td>
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<tr>
<td>FLASH METHOD</td>
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</tr>
<tr>
<td>LOWER EXPLOSION LIMIT</td>
<td>N/D</td>
</tr>
<tr>
<td>OTHER</td>
<td>Decomp. Temp. = 255 deg C</td>
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</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Stability
This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

Incompatibilities
Aqueous solution in contact with aluminum evolves hydrogen. Avoid contact with aluminum, copper, copper alloys, zinc and nickel. This product is incompatible with strong oxidizers.

Polymerization
Hazardous polymerization is not expected to occur.

Decomposition
Decomposition products are carbon dioxide, carbon monoxide, nitrogen oxides, and water vapor.

Conditions to Avoid
Contact with strong oxidizers and prolonged storage at elevated temperatures should be avoided.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological - Inhalation
Inhalation toxicity data are not available for this product.

Inhalation Chronic Exposure
Chronic inhalation exposure effects for this product are not known.

Toxicological - Dermal
Dermal toxicity data are not available for this product. However, it is not considered to be irritating based on tests with chemically similar products.

Skin Contact - Chronic
Chronic dermal exposure effects for this product are not known.

Toxicological - Eye
While this product has not been tested, it is expected that it would be minimally irritating to eyes based on tests with similar products.
SECTION 11. TOXICOCOLOGICAL INFORMATION (CONTINUED)

Ingestion Toxicity data is not available for this product. However, the oral DL50 can be expected to be > 2000 mg/kg (rat) based on data from structurally related products.

Chronic ingestion of NTA has been shown to cause kidney toxicity.

Nitrilotriacetic acid (NTA) and its salts were determined to be “possibly carcinogenic to humans” (Group 2B), by the International Agency for Research on Cancer (IARC) and a compound which “may reasonably be anticipated to be a carcinogen” by the National Toxicology Program (NTP).

REPRODUCTIVE EFFECTS
EDTA and its sodium salts have been reported, in some studies, to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation. Exposures having no effect on the mother should have no effect on the fetus.

NEUROTOXICITY
The neurotoxic effects of this product are not known.

Other Toxicological Effects
No other toxic effects of this product are not known.

Target Organs
The kidney and bladder appear to be target organs.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
The ecological toxicity of this product is not known. However, the following data exists for a structurally similar product:

*Poecilia reticulata (guppy): LC50 (96 hr) = 320 mg/L*
*Psuedomonas putida: EC 50 (8 hr) = 56 mg/L*

DISTRIBUTION
Other ecological information on this product is not known.

CHEMICAL FATE
Chemical fate information on this product is not known.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal
In its unused condition, this product is not considered to be a RCRA defined hazardous waste by characteristics or listings. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristic or listing.

Dispose in accordance with all local, state and federal regulations.

CONTAINER DISPOSAL
Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations.
**SECTION 14. TRANSPORT INFORMATION**

**SHIPPING DESCRIPTION**
This product is not regulated for shipping.

**REQUIRED LABELS**
Not regulated for shipping; no transport labels required.

**ENVIRON. HAZARDOUS SUBSTANCE**
This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

**SECTION 15. REGULATORY INFORMATION**

Component Disodium EDTA is subject to the following Environmental List:
- DSL Domestic Substance List - Canada
- TSCA Toxic Subst. Cont. Act - listed

Component NTA is subject to the following Environmental List:
- DSL Domestic Substance List - Canada
- IARC IARC Carcinogens-Grps. 1,2A,2B
- MA.List Massachusetts Substance List
- TSCA Toxic Subst. Cont. Act - listed

**OTHER REGULATORY INFORMATION**
No other regulatory information is available on this product.

<table>
<thead>
<tr>
<th>WHMIS HAZARD CLASS</th>
<th>HAZARD RATING SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-2A</td>
<td>HMIS</td>
</tr>
<tr>
<td>HEALTH</td>
<td>REACTIVITY</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>OTHER</td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 16. OTHER INFORMATION**

**KEY TO ABBREVIATIONS:**
- EQ = Equal
- LT = Less Than
- GT = Greater Than
- AP = Approximately
- TR = Trace
- ND = No Data Available

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