

Lotioncrafter
MATERIAL SAFETY DATA SHEET

DATE PRINTED: 06/24/04

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Lotioncrafter Disodium EDTA

MSDS No. 16-048549

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME
Disodium EDTA

CHEMICAL NAME
Ethylenediaminetetraacetic acid,
disodium salt

SYNONYM
Disodium EDTA hydrate

CHEMICAL FORMULA
C10 H14 N2 O8 Na2.2H2O

CAS #
MIXTURE

CHEMICAL FAMILY
Aminocarboxylic acid salt

DISTRIBUTORS NAME
Lotioncrafter

PRODUCT/TECHNICAL INFORMATION
1-360-376-8008

ADDRESS
532 Point Lawrence Road
Olga, WA 97279

Medical/HANDLING EMERGENCY
1-914-693-6946 Product Safety

COUNTRY
USA

TRANSPORTATION EMERGENCY
CHEMTREC 1-800-424-9300

PRODUCT USE
Sequestering agent

REVISION DATE

ISSUE DATE
6/24/2004

REVISION NO.

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.

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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

IARC	YES	OSHA	NO
NTP	YES	ACGIH	NO

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.

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SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT

N/D F N/D C

FLASH METHOD

Not applicable

AUTO IGNITION TEMPERATURE

N/D F N/D C

UPPER EXPLOSION LIMIT

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.

NFPA HEALTH RATING

1*

NFPA FLAMMABILITY RATING

1

NFPA REACTIVITY RATING

0

NFPA OTHER

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.

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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)

Substance Description	Reg. Agcy	PEL	TLV	TWA	STEL	CEIL
Disodium EDTA	OSHA	N/D	N/D	N/D	N/D	
	ACGIG	N/D	N/D	N/D	N/D	N/D
	NIOSH	N/D	N/D	N/D	N/D	N/D
	SUPPLIER	N/D	N/D	N/D	N/D	N/D
Trisodium NTA	OSHA	N/D	N/D	N/D	N/D	N/D
	ACGIG	N/D	N/D	N/D	N/D	N/D
	NIOSH	N/D	N/D	N/D	N/D	N/D
	SUPPLIER	N/D	N/D	N/D	N/D	N/D

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

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mm Hg)

N/D

EVAPORATION RATE

N/D

BOILING POINT

N/D F N/D C

SPECIFIC GRAVITY

N/D

SOLUBILITY IN WATER

AP 100 g/l (20 C, water)

COEFFICIENT OF OIL/WATER

N/D

MELTING POINT

230.00 F 110.00 C

(Losing of crystallization)

CLOUD POINT

N/D F N/D C

FLASH METHOD

Not applicable

LOWER EXPLOSION LIMIT

N/D

OTHER

Decomp. Temp. = 255 deg C

VAPOR DENSITY (Air = 1.0)

N/D

VOLATILE %

N/D

ODOR THRESHOLD (ppm)

N/D

BULK DENSITY

AP 700 kg/m3

SOLUBILITY IN OTHER SOLVENTS

N/D

POUR POINT

N/D F N/D C

pH FACTOR

AP 4.5 (1% solution)

FLASH POINT

N/D F N/D C

UPPER EXPLOSION LIMIT

N/D

AUTO IGNITION TEMPERATURE

N/D F N/D C

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 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.

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Toxicological - Ingestion

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.

Ingestion - Chronic

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

CARCINOGENICITY/MUTAGENICITY

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.

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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.

WHMIS HADARD CLASS

D-2A

HEALTH

1

FLAMMABILITY

1

HAZARD RATING SOURCE

HMIS

REACTIVITY

0

OTHER

SECTION 16. OTHER INFORMATION

KEY TO ABBREVIATIONS:

EQ = Equal

LT = Less Than

GT = Greater Than

AP = Approximately

TR = Trace

ND = No Data Available

Lotioncrafter 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 using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LOTIONCRAFTER MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, LOTIONCRAFTER WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.