

Issue Date: 24-Nov-2014

Review Date: 03-Mar-2021

Version 1

**1. IDENTIFICATION****Product Identifier****Product Name** CHELATING AGENT**Other means of identification****SDS #**

B-4187-14

**Recommended use of the chemical and restrictions on use****Recommended Use** Water-hardness treatment**Details of the supplier of the safety data sheet****Supplier Address**Ashburn Chemical Technologies  
7403 Wright Rd  
Houston, TX 77041**Emergency Telephone Number****Company Phone Number** 832-399-1015**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)**2. HAZARDS IDENTIFICATION****Appearance** clear, colorless**Physical State** Liquid**Odor** Slight ammonia odor**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity H302	Category 1
Serious eye damage H318	Category 1

**Hazards Not Otherwise Classified (HNOC)****Signal Word****Warning****Hazard Statements**

Harmful if swallowed

Causes serious eye damage

**Precautionary Statements - Prevention**

Wash exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection, face protection

**Precautionary Statements - Response**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Rinse mouth

IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Precautionary Statements-Disposal** Dispose of contents/container to comply with local, state, and federal regulations

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Weight-%
Tetrasodium EDTA	64-02-8	30 - 40
Sodium Hydroxide	1310-73-2	0.1 - 2.0
Trisodium NTA	5064-31-3	0.5 - 2
Ethylenediaminetriacetic acid, trisodium salt	19019-43-3	<1.0

**4. FIRST-AID MEASURES****First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Do not apply neutralizing agent. Consult a physician.
<b>Skin Contact</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation occurs.
<b>Inhalation</b>	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**Most important symptoms and effects (acute and delayed)**

<b>Symptoms</b>	Not expected to present a significant hazard under anticipated conditions of normal use  <b>ON CONTINUEOUS/REPEATED EXPOSURE/CONTACT:</b> EYE CONTACT CAUSES IRRITATION. May causes skin irritation. Maybe harmful if swallowed. Exposure to an excessive concentration of vapors, mist, fumes may cause respiratory tract discomfort and/or mild irritation
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person
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**5. FIRE-FIGHTING MEASURES****Extinguishing media:**

***Suitable Extinguishing Media*** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical**

Carbon oxides, nitrogen oxides (NOx), sodium oxide  
Further Information: No data available

**Specific Hazards Arising from the Chemical**

Carbon oxides, nitrogen oxides (NOx), sodium oxide  
Futher information: No data available

**Protective equipment and precautions for firefighters**

Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus(SCBA).

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Environmental Precautions</b>	Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material.
<b>Methods for Clean-Up</b>	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. Contain large spills and pump into a suitable tank for disposal. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800) 424-8802.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. Use only with adequate ventilation.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep container tightly closed and store in a dry and well-ventilated place away from heat sources, ignition sources, open flame, direct sunlight, incompatible materials. Do not store in open or unlabeled containers. Storage temperature 15-20°C.
<b>Incompatible Materials</b>	Oxidizing agents. Reducing agents. Strong acids. Strong bases. Halogen. Amines

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b><u>Exposure Guidelines</u></b>	Sodium Hydroxide CAS# 1310-73-2 ACGIH TWA: 2mg/m <sup>3</sup> ACGIH STEL: 2mg/m <sup>3</sup>
<b>Engineering Controls</b>	Maintain eye wash fountain and quick-drench facilities in work area.

### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	Safety glasses with side shields or protective goggles
<b>Skin and Body Protection</b>	Gloves and protective clothing.
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas. Wear gas mask with filter type A conc. in air > exposure limit

**General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH (1% solution)	~11.5	
Melting Point/Freezing Point	-95°C/no data available	
Boiling Point/Boiling Range	107°C	(at 760 mm Hg)
Flash Point	Not applicable	Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	Not determined	(butyl acetate = 1)
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Same as water	
Vapor Density	Same as water	(Air=1)
Specific Gravity	1.25 – 1.33	(1=Water)
Water Solubility	soluble	
Solubility in other solvents	miscible	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions.

**Chemical Stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to Avoid** Avoid contact with aluminum, nickel, zinc, copper and copper alloys. Aqueous solution in contact with aluminum evolves hydrogen. Do not expose product to elevated temperatures for extended periods of times.

**Incompatible Materials** Oxidizing agents. Strong acids.

### Hazardous Decomposition Products

Under fire conditions the product may support combustion and decomposes to give off carbon oxides fumes (CO, CO<sub>2</sub>), nitrogen, and water vapor.

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrasodium EDTA CAS# 64-02-8	1780 mg/kg	-	1000-5000mg/m <sup>3</sup> 4 h
Trisodium NTA CAS# 5064-31-3		-	LC50>5mg/L 4 h

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Not classified

**Reproductive toxicity** No data available.

**Aspiration hazard** No data available

**Specific target organ toxicity- Repeated Exposure** : No data available

**Numerical measures of toxicity** Not determined

## 12. ECOLOGICAL INFORMATION

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Inherently biodegradable. EDTA (acid form) and its salts are not readily biodegradable. Under special conditions like adaption or slightly alkaline pH, which is realistic under environmental surface water conditions, the biodegradability of EDTA is considerably enhanced and as such EDTA is considered ultimately biodegradable

**Bioaccumulation** Not determined.

**Mobility** Not determined

**Other Adverse Effects** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT/IMDG/IATA** Not dangerous goods

## 15. REGULATORY INFORMATION

**International Inventories**

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*  
*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA** Sodium Hydroxide CAS# 1310-73-2

**SARA 311/312 Hazard** Categories Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA 313** Not determined

**US State Regulations**

A related product Trisodium NTA monohydrates CAS# 18662-53-8 is known to the State of California to cause cancer and is reportable under Proposition 65

**U.S. State Right-to-Know Regulations**

**Chemical Name:** Sodium Hydroxide CAS# 1310-73-2

California Prop. 65 Components	New Jersey	Massachusetts	Pennsylvania
x	x	X	x

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	0	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	2	0	0	Not determined

**Issue Date:** 12-10-2014

**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**