

**EDTA Tetrasodium Salt****SECTION 1. IDENTIFICATION**

<b>Product Identifier</b>	EDTA Tetrasodium Salt
<b>Other Means of Identification</b>	Trilon B Powder, Ethylenediamine tetraacetic acid tetrasodium salt
<b>Product Code(s)</b>	ET1110
<b>Product Family</b>	Inorganic Solid
<b>Recommended Use</b>	Laboratory and industrial use.
<b>Restrictions on Use</b>	None known.
<b>Supplier Identifier</b>	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
<b>Emergency Phone No.</b>	CANUTEC CANADA, 613-996-6666, 24 Hours
<b>SDS No.</b>	0538

**SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

**Classification**

Combustible dust - Category 1; Acute toxicity (Oral) - Category 4; Acute toxicity (Inhalation) - Category 4; Serious eye damage - Category 1; Specific target organ toxicity (repeated exposure) - Category 2

**Label Elements**

Signal Word:  
Danger

**Hazard Statement(s):**

Causes serious eye damage.

Harmful if swallowed.

Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s):**

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing.

Wear eye protection/face protection.

Wear protective gloves.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Response:

Immediately call a POISON CENTRE or doctor.

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IF ON SKIN: Wash with plenty of water.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Sodium hydroxide (Pellets)	1310-73-2	1.0 - 3.0	Sodium hydrate solid
Tetrasodium ethylenediaminetetraacetate	64-02-8	75.0 - 100.0	EDTA, tetrasodium salt
Trisodium nitrilotriacetate	5064-31-3	3.0 - 5.0	NTA trisodium salt monohydrate
Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt	19019-43-3	5.0 - 7.0	N-2-(carboxymethyl) aminoethyl-, trisodium salt
Glycolic acid, monosodium salt	2836-32-0	1.0 - 3.0	Sodium Hydroxyacetate

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Avoid mouth-to-mouth contact by using a barrier device.

##### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If exposed or concerned, call a Poison Centre or doctor.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

##### Ingestion

Do not induce vomiting. Rinse mouth with water. Get medical advice or attention if you feel unwell.

##### First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training. Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can irritate the nose and throat. If in eyes: may cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result. If swallowed: can irritate the mouth, throat and stomach. If inhaled: can irritate the nose and throat.

#### Immediate Medical Attention and Special Treatment

##### Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### SECTION 5. FIRE-FIGHTING MEASURES

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## Extinguishing Media

### Suitable Extinguishing Media

Dry powder, foam.

### Unsuitable Extinguishing Media

Carbon dioxide or other extinguishing agents that smother flames are not effective in fires involving oxidizers.

## Specific Hazards Arising from the Product

Heating increases the release of toxic vapour. Combustible dust. Powder may form explosive dust-air mixture.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

## Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution. Approach fire from upwind to avoid hazardous vapours or gases. Fight fire from a safe distance or a protected location. Dust explosion hazard. Use water spray or fog to prevent dust formation and minimize risk of explosion. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Dike and recover contaminated water for appropriate disposal.

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources if safe to do so. Remove or isolate incompatible materials as well as other hazardous materials.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid generating dusts. Only use where there is adequate ventilation. Do not get in eyes, on skin or on clothing. Wear personal protective equipment to avoid direct contact with this chemical. Do not breathe in this product. Prevent accidental contact with incompatible chemicals. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep containers tightly closed when not in use or empty.

### Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in a closed container. Prevent dust build-up on ALL surfaces. Clean frequently. Avoid dry-sweeping. Use vacuum cleaner equipped with high efficiency filter.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Sodium hydroxide (Pellets)		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>			
Tetrasodium ethylenediaminetetraacetate	Not established		Not established			
Trisodium nitrilotriacetate	Not established		Not established			
Glycolic acid, monosodium salt	Not established		Not established			

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### Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Exhaust directly to the outside, taking any necessary precautions for environmental protection.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge, wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	White powder.
Odour	Odourless
Odour Threshold	Not available
pH	10.5 - 12.5
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	0.6 kPa (4.5 mm Hg) at 25 °C
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.67 at 20 °C
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	-13
Auto-ignition Temperature	> 200 °C (392 °F)
Decomposition Temperature	> 150 °C (302 °F)
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Dust explosion hazard.

### Conditions to Avoid

Water, moisture or humidity. Generation of dust. Temperatures above 150.0 °C (302.0 °F)

### Incompatible Materials

Oxidizing agents (e.g. peroxides).

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## Hazardous Decomposition Products

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium hydroxide (Pellets)	Not available	Not available	1350 mg/kg (rabbit)
Tetrasodium ethylenediaminetetraacetate	Not available	10000 mg/kg (rat)	Not available
Trisodium nitrilotriacetate	> 5 mg/L (rat) (4-hour exposure)	1450 mg/kg (rat)	Not available
Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt	Not available	3030 mg/kg (rat)	Not available
Glycolic acid, monosodium salt	2520 mg/m <sup>3</sup> (male rat) (4-hour exposure)	1357 mg/kg (rat)	Not available

### Skin Corrosion/Irritation

Not a skin irritant.

### Serious Eye Damage/Irritation

May irritate or burn the eyes. Permanent damage including blindness may result.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

No information was located.

#### Ingestion

May be harmful.

### Aspiration Hazard

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sodium hydroxide (Pellets)	Not Listed	Not Listed	Not Listed	Not Listed
Glycolic acid, monosodium salt	Not evaluated	Not Listed	Not Listed	

Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

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potential carcinogen by OSHA.

Glycolic acid, monosodium salt:

Sodium hydroxide (Pellets):

No information was located.

Tetrasodium ethylenediaminetetraacetate:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Trisodium nitrilotriacetate:

May cause cancer based on animal studies.

#### **Reproductive Toxicity**

##### **Development of Offspring**

Does not cause harm to the unborn child.

##### **Sexual Function and Fertility**

Does not cause effects on sexual function or fertility.

##### **Effects on or via Lactation**

No information was located.

#### **Germ Cell Mutagenicity**

Not mutagenic.

#### **Interactive Effects**

No information was located.

## **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

## **SECTION 14. TRANSPORT INFORMATION**

Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## **SECTION 15. REGULATORY INFORMATION**

#### **Safety, Health and Environmental Regulations**

##### **Canada**

##### **Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

##### **USA**

##### **Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

## **SECTION 16. OTHER INFORMATION**

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<b>NFPA Rating</b>	<b>Health - 2</b>	<b>Flammability - 1</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Alphachem Limited		
<b>Phone No.</b>	(905)-821-2995		
<b>Date of Preparation</b>	May 13, 2016		
<b>Date of Last Revision</b>	May 18, 2016		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). ACROS Organics database. BASF Corporation database.		
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