1. Identification

Product identifier used on the label

**Trilon® B liquid**

Recommended use of the chemical and restriction on use

Recommended use*: complexing agents

Suitable for use in industrial sector: chemical industry

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller’s published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company: BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: acetate
Synonyms: TRILON B LIQUID

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 (Inhalation - mist)</td>
<td>2A</td>
<td>2 (by inhalation)</td>
</tr>
</tbody>
</table>

Corrosive to metals
Acute toxicity
Serious eye damage/eye irritation
Specific target organ toxicity — repeated exposure

Label elements
Safety Data Sheet

Trilon® B liquid

Revision date: 2016/12/21
Page: 2/12
Version: 2.0

Pictogram:

Signal Word:
Warning

Hazard Statement:
H290 May be corrosive to metals.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure (inhalation).

Precautionary Statements (Prevention):
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye/face protection.
P261 Avoid breathing mist.
P260 Do not breathe dust/gas/mist/vapours.
P234 Keep only in original container.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):
P406 Store in corrosive resistant/… container with a resistant inner liner.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 40 % dermal

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-02-8</td>
<td>25.0 - 50.0%</td>
<td>tetrasodium ethylenediaminetetraacetate</td>
</tr>
<tr>
<td>5064-31-3</td>
<td>0.3 - 1.0%</td>
<td>trisodium nitrilotriacetate</td>
</tr>
</tbody>
</table>
4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
Wash thoroughly with soap and water.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, difficulty breathing, gastrointestinal complaints, irritation of the mucous membranes

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus in confined areas or when exposed to combustion products.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.
6. Accidental release measures

Further accidental release measures:
High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions
Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.
For large amounts: Pump off product. Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling
No special measures necessary provided product is used correctly.

Protection against fire and explosion:
No special precautions necessary.

Conditions for safe storage, including any incompatibilities
Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Polyester resin, glass reinforced (Palatal A410), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and in a cool place. The packed product is not damaged by low temperatures or by frost. Protect from temperatures above: 50 °C

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Tightly fitting safety goggles (chemical goggles) and face shield.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>yellowish</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>approx. 11.0 - 12.0 (10 g/l, 23 °C)</td>
<td>(DIN 19268)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>boiling temperature</td>
<td>100 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>A flash point determination is unnecessary due to the high water content.</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>hardly combustible</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Study does not need to be conducted.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Study does not need to be conducted.</td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>&gt; 200 °C</td>
<td>(DIN 51794)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>approx. 20 mbar (20 °C)</td>
<td>(DIN 51757)</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.3 g/cm³ (20 °C)</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>approx. 1.3 (20 °C)</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>-13</td>
<td></td>
</tr>
<tr>
<td>Self-ignition</td>
<td>Based on the water content the product does not ignite.</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No decomposition if stored and handled as prescribed/indicated.</td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>approx. 25 - 30 mPa.s (23 °C)</td>
<td>(DIN 53018)</td>
</tr>
<tr>
<td>Particle size</td>
<td>The substance / product is marketed or used in a non solid or granular form.</td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td>miscible</td>
<td></td>
</tr>
<tr>
<td>Miscibility with water</td>
<td>miscible in all proportions</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Other Information</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section.</td>
<td></td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effect on: Aluminium

Oxidizing properties:
not fire-propagating
Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Conditions to avoid
No data available.

Incompatible materials
No data available.

Hazardous decomposition products
Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg (BASF-Test)

Inhalation

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Type of value: LC50
Species: rat
Value: > 1 mg/l (other)
An aerosol was tested.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Dermal
Type of value: LD50
Species: rat
not determined
Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Type of value: LD50
Study scientifically not justified.

Assessment other acute effects
No data available.

Irritation / corrosion
Assessment of irritating effects: Irritating to eyes.

Skin
Species: rabbit
Result: non-irritant
Method: BASF-Test

Eye
Species: rabbit
Result: Irritant.
Method: BASF-Test

Information on: tetrasodium ethylenediaminetetraacetate
Species: rabbit
Result: Risk of serious damage to eyes.
Method: BASF-Test

Sensitization

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration Hazard
No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of repeated dose toxicity: Repeated inhalation exposure may affect certain organs. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Genetic toxicity

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of mutagenicity: In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.
Carcinogenicity
Assessment of carcinogenicity: Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

Information on: trisodium nitritotriacetate
Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity
Assessment of teratogenicity: Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Information on: Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt
Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses. Literature data.

Symptoms of Exposure
Eye irritation, difficulty breathing, gastrointestinal complaints, irritation of the mucous membranes

12. Ecological Information

Toxicity

Aquatic toxicity
Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
LC50 (96 h) > 100 mg/l, Lepomis macrochirus (OPP 72-1 (EPA-Guideline), static)
Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
EC50 (48 h) > 100 mg/l, Daphnia magna (DIN 38412 Part 11, static)
Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
EC50 (72 h) > 100 mg/l (growth rate), Scenedesmus obliquus (Directive 88/302/EEC, part C, p. 89, static)
Nominal concentration.

Chronic toxicity to fish

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
No observed effect concentration (35 d) >= 36.9 mg/l, Brachydanio rerio (OECD Guideline 210, Flow through.)
The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to aquatic invertebrates

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
No observed effect concentration (21 d) 25 mg/l, Daphnia magna (OECD Guideline 211, semistatic)
Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Soil living organisms

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Toxicity to soil dwelling organisms:
LC50 (14 d) 156 mg/kg, Eisenia fetida (OECD Guideline 207, artificial soil)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Microorganisms/Effect on activated sludge

Toxicity to microorganisms

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
OECD Guideline 209 aquatic activated sludge, domestic/EC20 (30 min): > 500 mg/l
Nominal concentration. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
Was found to be potentially biodegradable.
Not readily biodegradable (by OECD criteria).

Assessment of stability in water

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt
According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Bioaccumulation potential

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt

Bioconcentration factor: approx. 1.8 (28 d), Lepomis macrochirus
Does not significantly accumulate in organisms.

Mobility in soil

Assessment transport between environmental compartments

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt

The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is not expected.

Additional information

Sum parameter

Theoretical Oxygen Demand (ThOD): 262 mg/g
13. Disposal considerations

**Waste disposal of substance:**
Must be disposed of or incinerated in accordance with local regulations.

**Container disposal:**
Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

**Land transport**
TDG

- **Hazard class:** 8
- **Packing group:** III
- **ID number:** UN 3267
- **Hazard label:** 8
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains ETHYLENEDIAMINETETRAACETIC ACID NA4-SALT) CORROSIVE ON ALUMINIUM

**Sea transport**
IMDG

- **Hazard class:** 8
- **Packing group:** III
- **ID number:** UN 3267
- **Hazard label:** 8
- **Marine pollutant:** NO
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains ETHYLENEDIAMINETETRAACETIC ACID NA4-SALT) CORROSIVE ON ALUMINIUM

**Air transport**
IATA/ICAO

- **Hazard class:** 8
- **Packing group:** III
- **ID number:** UN 3267
- **Hazard label:** 8
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains ETHYLENEDIAMINETETRAACETIC ACID NA4-SALT) CORROSIVE ON ALUMINIUM

15. Regulatory Information

**Federal Regulations**

Registration status:
16. Other Information

**SDS Prepared by:**
BASF NA Product Regulations
SDS Prepared on: 2016/12/21

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET