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>Property</th>
<th>Class or Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met. Corr.</td>
<td>1</td>
<td>Corrosive to metals</td>
</tr>
<tr>
<td>Acute Tox.</td>
<td>4 (Inhalation - mist)</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Eye Dam./Irrit.</td>
<td>2A</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>STOT RE</td>
<td>2 (by inhalation)</td>
<td>Specific target organ toxicity — repeated exposure</td>
</tr>
</tbody>
</table>

Label elements
Pictogram:

Signal Word:
Warning

Hazard Statement:
H290 May be corrosive to metals.
H319 Causes serious eye irritation.
H332 Hazardous 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 packaging.
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 a corrosion-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>tetraysodium 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**
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.
General safety and hygiene measures:
Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

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

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**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

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**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.

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**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.

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**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.

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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 nitrilotriacetate
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).

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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).

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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.

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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.

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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.

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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.

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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).

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Assessment of stability in water

Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt

According to structural properties, hydrolysis is not expected/probable.

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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.

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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.

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Additional information

Sum parameter
Theoretical Oxygen Demand (ThOD): 262 mg/g

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:
Dispose of in accordance with national, state and local regulations.

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:
Chemical DSL, CA released / listed

NFPA Hazard codes:
Health: 2 Fire: 1 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/01/25

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