

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION 1**

**Product Name:** Winter Stain & Scale Control  
**Product Id:** 8000  
**Synonyms:** Trilon B liquid, EDTA Tetrasodium  
**Material Uses:** To help limit metal levels and inhibit scale in swimming pools, spas and hot tubs.  
**Revised Date:** 04-28-2015  
**Manufactured By:** BASF Corporation  
 100 Park Avenue  
 Florham Park, NJ 07932, USA  
 Tel: (973) 245-6000  
**In Case of Emergency:** CHEMTREC, U.S.: 1-800-424-9300  
 BASF Hotline: 1-800-832-HELP (4357)  
**Packaged By:** Baleco International Inc.  
 3200 State Line Rd  
 North Bend, OH 45052  
 (513) 353-3000

**SECTION 2. HAZARDS IDENTIFICATION 2**

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Met. Corr.	1	Corrosive to metals
Acute Tox.	4	(Inhalation - mist) Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT RE	2 (by inhalation)	Specific target organ toxicity — repeated exposure

**Label Elements**

Pictogram:



**Signal Word:** Danger

**Hazard Statement:**

H290 May be corrosive to metals.  
 H318 Causes serious eye damage.  
 H315 Causes skin 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 protective gloves and eye/face protection.  
 P260 Do not breathe dust/gas/mist/vapours.  
 P264 Wash with plenty of water and soap thoroughly after handling.  
 P234 Keep only in original container.

**Precautionary Statements (Response):**

P310 Immediately call a POISON CENTER or doctor/physician.

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.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash before reuse.

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: 41 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 2 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 % Inhalation - mist

### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Emergency overview

WARNING:

Causes eye irritation.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Wear chemical resistant protective gloves.

Eye wash fountains and safety showers must be easily accessible.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS 3

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
64-02-8	>= 25.0 - < 50.0 %	tetrasodium ethylenediaminetetraacetate
1310-73-2	>= 1.0 - < 3.0 %	Sodium Hydroxide
5064-31-3	>= 0.3 - < 1.0 %	trisodium nitrilotriacetate

### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7732-18-5	58.89 %	Water
64-02-8	39.0 %	tetrasodium ethylenediaminetetraacetate
1310-73-2	1.7 %	Sodium Hydroxide
5064-31-3	0.41 %	trisodium nitrilotriacetate

## SECTION 4. FIRST AID MEASURES 4

### 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: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

**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.

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## **SECTION 5. FIRE FIGHTING MEASURES** **5**

### **Extinguishing media**

Suitable extinguishing media: Water spray, dry powder, foam

### **Special hazards arising from the substance or mixture**

#### **Advice for fire-fighters**

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### **Further information:**

Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES** **6**

### 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.

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## **SECTION 7. HANDLING AND STORAGE** **7**

### **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**

Segregate from acids and bases. Segregate from strong oxidizing agents.

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.

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## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION** **8**

**Advice on system design:** Provide local exhaust ventilation to control vapours/mists.

### **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.

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES 9**

Form:	liquid
Odour:	odourless
Odour threshold:	not determined
Colour:	yellow
pH value:	11 - 11.8
Freezing point:	approx. 0 °C Information applies to the solvent.
Boiling point:	> 100 °C ( 1,013 hPa)
Flash point:	> 100 °C (closed cup)
Flammability:	not flammable
Lower explosion limit:	Study does not need to be conducted.
Upper explosion limit:	Study does not need to be conducted.
Autoignition:	Based on the water content the product does not ignite.
Vapour pressure:	< 0.35 mmHg ( 20 °C)
Density:	1.29 - 1.32 g/cm <sup>3</sup> ( 20 - 25 °C)
Relative density:	1.29 - 1.32
Vapour density:	not determined
Partitioning coefficient noctanol/ water (log Pow):	Study does not need to be conducted.
Self-ignition temperature:	Based on the water content the product does not ignite.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not determined
Particle size:	The substance / product is marketed or used in a non solid or granular form.
Solubility in water:	soluble
Evaporation rate:	not determined
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

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**SECTION 10. STABILITY AND REACTIVITY 10**

**Reactivity**

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

Corrosion to metals: Corrosive effect on metals. Corrosive effect on: brass zinc aluminum

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**

See MSDS section 7 - Handling and storage.

**Incompatible materials**

oxidizing agents, amphoteric metals, light metals

**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.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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### **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: Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

#### Dermal

Type of value: LD50

Species: rat

not determined

#### Assessment other acute effects

No data available.

#### Skin

Species: rabbit

Result: non-irritant

Method: BASF-Test

#### Eye

Species: rabbit

Result: Irritant.

Method: BASF-Test

Sensitization

No sensitizing effect.

*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

Assessment of repeated dose toxicity: No data available.

*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

Assessment of mutagenicity: No data available concerning mutagenic effects.

*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: No data available concerning carcinogenic effects.*

*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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**Reproductive toxicity**

*Assessment of reproduction toxicity: No data available.*

**Teratogenicity**

*Assessment of teratogenicity: No data available.*

**Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 – Toxicological information.

**SECTION 12.**

**ECOLOGICAL INFORMATION**

**12**

**Toxicity**

Toxicity to fish

LC50 (96 h) > 500 mg/l, *Leuciscus idus*

Aquatic invertebrates

EC50 (48 h) > 100 mg/l

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.*

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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.*

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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.*

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Soil living organisms

*Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt*

Toxicity to soil dwelling organisms:

LC50 (14 d) 156 mg/kg, *Eisenia foetida* (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

DEV-L2 : > 100 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

**Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O)

Experience has shown that the product is difficult to eliminate in effluent treatment plants. Was found to be potentially biodegradeable.

Assessment biodegradation and elimination (H<sub>2</sub>O)

*Information on: Ethylenediaminetetraacetic Acid Tetrasodium Salt*

*Was found to be potentially biodegradeable.*

*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**

Assessment bioaccumulation potential

The product has not been tested.

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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

Chemical oxygen demand (COD): 265 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

**SECTION 13.**

**DISPOSAL CONSIDERATIONS**

**13**

**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 a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## SECTION 14. TRANSPORT INFORMATION 14

### Land transport

USDOT

May be transported as non hazardous under USDOT in approved packaging.

### 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) SOLUTION 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) SOLUTION CORROSIVE ON ALUMINIUM

## SECTION 15. REGULATORY INFORMATION 15

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

#### CERCLA RQ

1000 LBS

#### CAS Number

1310-73-2

#### Chemical name

Sodium Hydroxide

#### State regulations

##### State RTK

MA, NJ, PA

MA

##### CAS Number

1310-73-2

5064-31-3

##### Chemical name

Sodium Hydroxide

risodium nitrilotriacetate

#### NFPA Hazard codes:

Health : 3 Fire: 1 Reactivity: 0 Special:



#### HMIS III rating

Health: 3 Flammability: 1 Physical hazard:0



**SDS Prepared by:** MSDS/SDS Department in conjunction with BASF Corp. SDS information.  
Baleco Int'l Inc.  
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(513)353-3000

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This SDS is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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Reason(s) for Revision:

3 year review

Updates to all sections to bring into compliance.

Prepared By: SDS / MSDS Dept. Baleco Int'l Inc. in conjunction with the sds/msds of the manufacturer.  
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End of Safety Data Sheet