

Safety Data Sheet

Trilon® C Liquid 50%

Revision date : 2019/04/22

Version: 3.1

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(30235588/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Trilon® C Liquid 50%

Recommended use of the chemical and restriction on use

Recommended use*: complexing agents for the chemical industry

Recommended use*: Chemical

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 CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: unspecified

Synonyms: PENTASODIUM DIETHYLENETRIAMINEPENTACETATE

PENTASODIUM DTPA

2. Hazards Identification

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

Classification of the product

Met. Corr.	1	Corrosive to metals
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Carc.	2	Carcinogenicity

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Repr. 2 (unborn child) Reproductive toxicity

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H290	May be corrosive to metals.
H351	Suspected of causing cancer.
H361	Suspected of damaging the unborn child.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust or mist.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash with plenty of water and soap thoroughly after handling.
P234	Keep only in original packaging.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P390	Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P405	Store locked up.
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.
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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: 52 %

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3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
139-13-9	< 2.0%	nitrilotriacetic acid
140-01-2	40.0 - 60.0%	diethylentriaminepentaacetic acid, pentasodium salt
1310-73-2	< 2.0%	Sodium Hydroxide

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Do not induce vomiting. 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, respiratory disorders, gastrointestinal complaints, irritation of the mucous membranes

Hazards: No data available.

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

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Special hazards arising from the substance or mixture

Hazards during fire-fighting:
No applicable information available.

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

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

Contain contaminated water/firefighting water. 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

Segregate from foods and animal feeds.

Suitable materials for containers: Stainless steel 1.4301 (V2), Stainless steel 1.4401, High density polyethylene (HDPE), Low density polyethylene (LDPE), glass

Further information on storage conditions: Keep container tightly closed and in a cool place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Sodium Hydroxide	OSHA PEL	PEL 2 mg/m ³ ; CLV 2 mg/m ³ ;
	ACGIH TLV	CLV 2 mg/m ³ ;

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Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

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

9. Physical and Chemical Properties

Form:	liquid	
Odour:	faint odour, ammonia-like	
Colour:	light yellow	
pH value:	11.8	
Freezing point:	< 0 °C (1,013 hPa)	
Boiling point:	> 100 °C (1,013 hPa)	
:	No applicable information available.	
Flash point:	> 100 °C	(ASTM D93)
Flammability:	not flammable	
Lower explosion limit:	Study does not need to be conducted.	
Upper explosion limit:	Study does not need to be conducted.	
Autoignition:	> 200 °C	(DIN 51794)
Vapour pressure:	< 0.35 mmHg (20 °C)	
Density:	1.39 g/cm ³ (20 °C)	
Relative density:	1.39	
Vapour density:	No data available.	
Partitioning coefficient n-octanol/water (log Pow):	-16.25	(calculated)
Self-ignition temperature:	Based on the water content the product does not ignite.	
Thermal decomposition:	No data available.	
Viscosity, dynamic:	No data available.	
Viscosity, kinematic:	No applicable information available.	

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Particle size:	The substance / product is marketed or used in a non solid or granular form.
Solubility in water:	soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	508.3 g/mol
Evaporation rate:	No applicable information available.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Corrosive effect on metals. Corrosive effect on: brass zinc 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

See MSDS section 7 - Handling and storage.

Incompatible materials

amphoteric metals, light metals

Hazardous decomposition products

Decomposition products:

No applicable information available.

Thermal decomposition:

No data available.

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: No applicable information available.

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Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Information on: nitrilotriacetic acid

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

Information on: Sodium Hydroxide

Assessment of acute toxicity: The toxicity of the product is based on its corrosivity.

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Type of value: LD50

Species: rat

Value: approx. 4,550 mg/kg (BASF-Test)

Information on: nitrilotriacetic acid

Type of value: LD50

Species: rat

Value: > 6,400 mg/kg (BASF-Test)

Information on: Sodium Hydroxide

Study scientifically not justified.

Inhalation

Species: rat

Value: (IRT)

Exposure time: 8 h

No mortality within the stated exposition time as shown in animal studies.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Study does not need to be conducted.

Information on: nitrilotriacetic acid

Type of value: LC50

Species: rat

Value: > 5 mg/l (similar to OECD guideline 403)

Exposure time: 4 h

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Sodium Hydroxide

Study scientifically not justified.

Dermal

Type of value: ATE

Value: > 5,000 mg/kg

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Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: nitrilotriacetic acid

Type of value: LD50

Species: rabbit (male/female)

Value: > 10,000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Sodium Hydroxide

Study scientifically not justified.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: No applicable information available.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Information on: nitrilotriacetic acid

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: Sodium Hydroxide

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

An aqueous solution was tested.

Information on: nitrilotriacetic acid

Species: rabbit

Result: non-irritant

Method: BASF-Test

Information on: Sodium Hydroxide

Species: rabbit

Result: Corrosive.

Data refer to a diluted aqueous solution of the substance.

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Eye

Species: rabbit
Result: Irritant.
Method: OECD Guideline 405

Information on: diethylenetriaminepentaacetic acid, pentasodium salt
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405
An aqueous solution was tested.

Information on: nitrilotriacetic acid
Species: rabbit
Result: Irritant.
Method: BASF-Test

Information on: Sodium Hydroxide
Study scientifically not justified.

Sensitization

Assessment of sensitization: No applicable information available.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

Information on: nitrilotriacetic acid
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Sodium Hydroxide
Assessment of sensitization:
The substance did not cause skin sensitization in humans.

Guinea pig maximization test
No sensitizing effect.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406

Buehler 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.

Information on: nitrilotriacetic acid

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Buehler 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.

Information on: Sodium Hydroxide

Patch-Test

Species: human

Result: Non-sensitizing.

Method: Human patch test

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No applicable information available.

Information on: diethylentriaminepentaacetic acid, pentasodium salt

Assessment of repeated dose toxicity: The substance may cause damage to the lung after repeated inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: nitrilotriacetic acid

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion.

Information on: Sodium Hydroxide

Assessment of repeated dose toxicity: Prolonged exposure to high concentrations may cause discomfort and ulceration of nasal passages.

After repeated administration the prominent effect is the induction of corrosion.

Information on: diethylentriaminepentaacetic acid, pentasodium salt

Information on: nitrilotriacetic acid

Information on: Sodium Hydroxide

Genetic toxicity

Assessment of mutagenicity: No applicable information available.

Information on: diethylentriaminepentaacetic acid, pentasodium salt

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The chemical structure does not suggest a specific alert for such an effect.

Information on: nitrilotriacetic acid

Assessment of mutagenicity: Most of the results from the available studies show no evidence of a mutagenic effect.

Information on: Sodium Hydroxide

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Assessment of mutagenicity: No valid studies concerning mutagenic properties are available. Study scientifically not justified.

Carcinogenicity

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Assessment of carcinogenicity: No data available concerning carcinogenic effects. The chemical structure does not suggest a specific alert for such an effect.

Information on: nitrilotriacetic acid

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).

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Information on: Sodium Hydroxide

Assessment of carcinogenicity: Study scientifically not justified.

Reproductive toxicity

Assessment of reproduction toxicity: No applicable information available.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Assessment of reproduction toxicity: No data available. The chemical structure does not suggest a specific alert for such an effect.

Information on: nitrilotriacetic acid

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Sodium Hydroxide

Assessment of reproduction toxicity: Study scientifically not justified.

Teratogenicity

Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Assessment of teratogenicity: The results of animal studies gave indication of a developmental toxic/teratogenic effects with high doses.

Information on: nitrilotriacetic acid

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Sodium Hydroxide

Assessment of teratogenicity: Study scientifically not justified.

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Other Information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Symptoms of Exposure

Eye irritation, respiratory disorders, gastrointestinal complaints, irritation of the mucous membranes

12. Ecological Information

Toxicity

Toxicity to fish

LC50 (96 h) > 100 mg/l, *Poecilia reticulata*

LC50 (96 h) > 100 mg/l, *Lepomis macrochirus*

Aquatic invertebrates

EC50 (48 h) > 100 mg/l

Aquatic plants

EC50 1 - 10 mg/l, *Desmodesmus subspicatus* (OECD Guideline 201)

Inhibition of algal growth is due to the complexing properties of the substance and is not ascribed to an intrinsic toxicity.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Aquatic toxicity

Information on: diethylenetriaminepentaacetic acid, pentasodium 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: diethylenetriaminepentaacetic acid, pentasodium salt

*No observed effect concentration (96 h) 1,000 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 84/449/EEC, C.1, semistatic)*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

*EC50 (48 h) 245 mg/l, *Daphnia* sp. (OECD Guideline 202, part 1, static)*

The details of the toxic effect relate to the 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: diethylenetriaminepentaacetic acid, pentasodium salt

No observed effect concentration (23 d) 400 mg/l, Scenedesmus quadricauda (other, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity to fish

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

No observed effect concentration (28 d) 100 mg/l (semistatic)

The details of the toxic effect relate to the nominal 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: diethylenetriaminepentaacetic acid, pentasodium salt

No observed effect concentration (18 d) 67 mg/l, Daphnia sp. (OECD Guideline 211, static)

The details of the toxic effect relate to the nominal concentration. 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

DIN EN ISO 10712 activated sludge: 200 mg/l

bacterium/EC10 (17 h): 0.49 mg/l

Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

OECD Guideline 209 aerobic

activated sludge/EC50 (3 h): > 1,000 mg/l

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

aerobic

activated sludge, domestic/EC0 (30 d): 100 mg/l

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)

Experience has shown that the product is difficult to eliminate in effluent treatment plants.

Elimination information

< 5 % DOC reduction (28 d) (OECD 302B; ISO 9888; 88/302/EEC, part C) Poorly eliminated from water.

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Assessment biodegradation and elimination (H₂O)

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Not readily biodegradable (by OECD criteria). Poorly biodegradable. Poorly eliminated from water. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of stability in water

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

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

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: diethylenetriaminepentaacetic acid, pentasodium salt

Mobility in soil

Assessment transport between environmental compartments

No data available.

Information on: diethylenetriaminepentaacetic acid, pentasodium salt

Adsorption to solid soil phase is not expected. Study scientifically not justified.

Additional information

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.

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:

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Dispose of in accordance with local authority regulations.

Container disposal:

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

14. Transport Information

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 DIETHYLENETRIAMINE PENTAACETIC ACID NA5-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 DIETHYLENETRIAMINE PENTAACETIC ACID NA5-SALT) CORROSIVE ON ALUMINIUM

Further information

Not Class 8 for USDOT as per 49 CFR 173.154 (d).

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

CAS Number
139-13-9

Chemical name
nitrilotriacetic acid

CERCLA RQ

CAS Number

Chemical name

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1000 LBS 1310-73-2 Sodium Hydroxide

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	139-13-9	nitrilotriacetic acid
	1310-73-2	Sodium Hydroxide
PA	139-13-9	nitrilotriacetic acid
	1310-73-2	Sodium Hydroxide

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including NITRILOTRIACETIC ACID, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 2 α Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2019/04/22

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