

# Safety Data Sheet

## Na-Ethylate Crystals

Revision date : 2022/10/17

Version: 4.0

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(30036707/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Na-Ethylate Crystals

#### Recommended use of the chemical and restriction on use

Recommended use\*: Chemical

Recommended use\*: process chemical; Raw material

Unsuitable for use: Not intended for sale to or use by the general public.

\* 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

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

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

#### Other means of identification

Molecular formula:  $\text{CH(3)CH(2)ONa}$ 

Chemical family: alcohol, sodium salt

Synonyms: Sodium Ethoxide

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### 2. Hazards Identification

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

#### Classification of the product

Flam. Sol.

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Flammable solids

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Self-heat.	1	Self-heating substances and mixtures
Skin Corr./Irrit.	1A	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H228	Flammable solid.
H251	Self-heating: may catch fire.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P260	Do not breathe dust or mist.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P235 + P410	Keep cool. Protect from sunlight.
P240	Ground and bond container and receiving equipment.
P264	Wash contaminated body parts thoroughly after handling.

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 physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P370 + P378	In case of fire, ... to extinguish.

Precautionary Statements (Storage):

P405	Store locked up.
P407	Maintain air gap between stacks or pallets.
P410	Protect from sunlight.
P420	Store separately.
P413	Store bulk masses greater than 1,000 kg/2,205 lbs at temperatures not exceeding 25 °C/77 °F.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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### Hazards not otherwise classified

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If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. When finely distributed, self-ignition is possible. The product is under certain conditions capable of dust explosion. Corrodes metals in the presence of water or moisture.

Labeling of special preparations (GHS):

Reacts violently with water.

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### 3. Composition / Information on Ingredients

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

sodium ethanolate

CAS Number: 141-52-6

Content (W/W): 75.0 - <= 100.0%

Synonym: Ethanol, sodium salt; Sodium ethoxide

Sodium Hydroxide

CAS Number: 1310-73-2

Content (W/W): 0.3 - < 3.0%

Synonym: Sodium hydroxide; Caustic soda

Ethanol

CAS Number: 64-17-5

Content (W/W): 0.0 - <= 2.0%

Synonym: Ethyl alcohol

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### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Immediately remove contaminated clothing. 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).

Avoid contact with the skin, eyes and clothing. Immediately remove contaminated clothing.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas with water while removing contaminated clothing. Immediate medical attention required.

**If in eyes:**

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

**If swallowed:**

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention.

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### Most important symptoms and effects, both acute and delayed

Symptoms: skin corrosion, Eye irritation, Further symptoms are possible  
Hazards: No hazard is expected under intended use and appropriate handling.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, Dry sand, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:  
water, carbon dioxide

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Reacts violently with water. May release highly flammable and/or corrosive gases/vapours.

### Advice for fire-fighters

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

### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

### Environmental precautions

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up. Correctly dispose of recovered product immediately.  
For large amounts: Sweep/shovel up. Correctly dispose of recovered product immediately.

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### 7. Handling and Storage

#### Precautions for safe handling

Use with local exhaust ventilation. Avoid dust formation. Protect against moisture. Protect from air. Protect from direct sunlight. Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:

Take precautionary measures against static discharges. Sources of ignition should be kept well clear. Fire extinguishers should be kept handy. Dust can form an explosive mixture with air.

#### Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE), Carbon steel (Iron), Stainless steel 1.4541, Stainless steel 1.4571, Alkyd resin lacquer 441

Unsuitable materials for containers: Aluminium, Galvanized carbon steel (Zinc), Lead-plated, Paper/Fibreboard, tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen.

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

The mentioned substance is result of gradual decomposition under influence of atmospheric humidity.

Ethanol	ACGIH, US:	STEL value 1,000 ppm ;
	OSHA Z1:	PEL 1,000 ppm 1,900 mg/m3 ;
Sodium Hydroxide	ACGIH, US:	CLV 2 mg/m3 ;
	OSHA Z1:	PEL 2 mg/m3 ;

#### Personal protective equipment

##### Respiratory protection:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

##### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), Suitable materials, fluoroelastomer (Viton), butyl rubber, Consult with glove manufacturer for testing data.

##### 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.

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### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of dusts.

## 9. Physical and Chemical Properties

Form:	powder, crystalline powder	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
Colour:	white to slightly yellow	
pH value:	12.8 ( 7 g/l, 20 °C)	
melting point (decomposition):	260 °C The substance / product decomposes. Literature data.	
Boiling point:	( 1,013.25 hPa) The substance / product decomposes therefore not determined.	
decomposition point:	>= 260 °C ( 1,013 hPa) Literature data.	
Flash point:	not applicable, the product is a solid	
Flammability:	highly flammable solid	(UN Test N.1 (ready combustible solids))
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition: SADT:	not applicable > 75 °C Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)	
Vapour pressure:	0.0000028 hPa ( 25 °C)	(calculated)
Density:	0.868 g/cm <sup>3</sup> ( 20 °C) Literature data.	
Relative density:	No data available.	
Bulk density:	approx. 500 kg/m <sup>3</sup> ( < 40 °C)	(DIN 53466)
Vapour density: <i>Information on: Ethanol</i>	The product is a non-volatile solid.	
Partitioning coefficient n-octanol/water (log Pow):	-0.31 ( 25 °C) Literature data.	(measured)
----- Self-ignition temperature:	> 50 °C	
Thermal decomposition:	> 280 °C (DTA) The indicated value is for inert gas atmosphere. > 50 °C	
Viscosity, dynamic:	Risk of spontaneous ignition when exposed to air. Study scientifically not justified.	
Viscosity, kinematic:	not applicable, the product is a solid	

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Particle size: (measured)  
Solubility in water: hydrolyzes, spontaneous decomposition  
Solubility (qualitative): soluble  
solvent(s): alcohols,  
Evaporation rate: The product is a non-volatile solid.

### 10. Stability and Reactivity

#### Reactivity

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

Corrosion to metals:

Corrosive effect on: Aluminium Corrodes metals in the presence of water or moisture.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
	Method:	Flammability (contact with water)

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

Exothermic reaction. Reacts with water and acids. Reacts with substances which contain active hydrogen. Self heating possible in the presence of air. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

#### Conditions to avoid

Avoid humidity. Avoid contact with air.

#### Incompatible materials

water, acids

#### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: Sodium Hydroxide, Ethanol

Thermal decomposition:

> 280 °C (DTA)

The indicated value is for inert gas atmosphere.

> 50 °C

Risk of spontaneous ignition when exposed to air.

### 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.

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### Acute Toxicity/Effects

#### Acute toxicity

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

#### Oral

Type of value: LD50

Species: rat

Value: 598 mg/kg (OECD Guideline 401)

#### Inhalation

*Information on: Ethanol*

*Type of value: LC50*

*Species: rat*

*Value: 124.7 mg/l (BASF-Test)*

*Exposure time: 4 h*

*The vapour was tested.*

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#### Dermal

Due to the corrosive properties of the substance higher doses cannot be tested. Study does not need to be conducted.

#### Assessment other acute effects

Assessment of STOT single:

The available information is not sufficient for the evaluation of specific target organ toxicity.

#### Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

#### Skin

Species: rabbit

Result: Corrosive.

Method: OECD Guideline 404

#### Eye

As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

#### Sensitization

Assessment of sensitization: As the substance is corrosive, conducting sensitization studies is not feasible. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Skin sensitizing effects were not observed in animal studies. The substance did not cause skin sensitization in humans.

Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: Non-sensitizing.

Method: similar to OECD guideline 429

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

Patch test

Species: human

Result: Non-sensitizing.



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Method: Human patch test

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

### Aspiration Hazard

not applicable

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to large quantities may affect certain organs. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. After repeated administration the prominent effect is the induction of corrosion.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### *Information on: Ethanol*

*Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.*

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### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

### *Information on: Ethanol*

*Assessment of carcinogenicity: The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. The whole of the information assessable provides no indication of a carcinogenic effect.*

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### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect with high doses. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The toxicity of the product is based on its corrosivity.

### Teratogenicity

Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The toxicity of the product is based on its corrosivity.

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

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### 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.

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. The product gives rise to pH shifts. The ecotoxicological effects are solely caused by the pH.

### Toxicity to fish

LC50 (96 h) 13,000 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (Fish test acute, static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

### Aquatic invertebrates

LC50 (48 h) 12,340 mg/l, *Daphnia magna* (other, static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

### Aquatic plants

EC50 (4 d) 1,000 mg/l, *Chlorella vulgaris* (Algal growth inhibition test)

Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

### Chronic toxicity to fish

No data available.

### Chronic toxicity to aquatic invertebrates

LC50 (10 d) 454 mg/l, *Daphnia magna* (*Daphnia* test chronic, static)

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. Literature data.

### Aquatic toxicity

#### *Information on: Sodium Hydroxide*

##### *Assessment of aquatic toxicity:*

*Depending on local conditions and existing concentrations, disturbances in the nitrification process of activated sludge are possible. There is a high probability that the product is not acutely harmful to aquatic organisms.*

*The effect strongly depends on the pH-value. The data refers to the dissociated form of the substance.*

#### *Information on: Ethanol*

##### *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: Sodium Hydroxide*

LC50 (96 h) 125 mg/l, *Gambusia affinis* (other, static)

The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. Literature data.

#### *Information on: Ethanol*

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*LC50 (96 h) 13,000 mg/l, Salmo gairdneri, syn. O. mykiss (Fish test acute, static)  
The details of the toxic effect relate to the nominal concentration. Literature data.*

### Aquatic invertebrates

*Information on: Sodium Hydroxide  
EC50 (48 h) 40.4 mg/l, Ceriodaphnia sp. (other, static)  
Literature data.*

*Information on: Ethanol  
LC50 (48 h) 12,340 mg/l, Daphnia magna (Daphnia test acute, static)  
The details of the toxic effect relate to the nominal concentration. Literature data.  
(48 h) 5,012 mg/l, Ceriodaphnia dubia (Daphnia test acute)  
The details of the toxic effect relate to the nominal concentration. Literature data.*

### Aquatic plants

*Information on: Ethanol  
EC50 (4 d) 675 mg/l (growth rate), Chlorella vulgaris (Algal growth inhibition test)  
The details of the toxic effect relate to the nominal concentration. Literature data.*

### Assessment of terrestrial toxicity

No toxic effects have been observed in studies with terrestrial plants.

### Soil living organisms

Toxicity to soil dwelling organisms:  
LC50 (48 h) 100 - 1000 µg/cm<sup>2</sup>, Eisenia foetida (Screening test, filter paper)

### Toxicity to terrestrial plants

EC50 (6 d) 7,890 - 15,780 mg/l (Screening test)  
Literature data.

### Other terrestrial non-mammals

No data available.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

other aquatic  
bacterium/Toxic limit concentration (16 h): 6,500 mg/l  
Literature data. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

*Information on: Ethanol  
other aquatic  
bacterium/Toxic limit concentration (16 h): 6,500 mg/l  
The details of the toxic effect relate to the nominal concentration. Literature data.*

## **Persistence and degradability**

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

The product is unstable in water. The elimination data also refer to products of hydrolysis. The organic component of the product is biodegradable.

### Elimination information

89 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))  
Literature data.

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

*Information on: Ethanol*

*Readily biodegradable (according to OECD criteria).*  
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### Elimination information

*Information on: Ethanol*

*89 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))*

*Literature data.*

*84 % BOD of the ThOD (20 d) (other) (aerobic, activated sludge, domestic, non-adapted)*

*Literature data.*  
-----

### Assessment of stability in water

In contact with water the substance will hydrolyse rapidly.

### Information on Stability in Water (Hydrolysis)

In contact with water the substance will hydrolyse rapidly.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

### Bioaccumulation potential

No data available.

### Assessment bioaccumulation potential

*Information on: Ethanol*

*No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).*  
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## **Mobility in soil**

### Assessment transport between environmental compartments

Due to the product characteristics the test is impossible.

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### Information on: Sodium Hydroxide

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

### Information on: Ethanol

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

### Additional information

Adsorbable organically-bound halogen(AOX):  
This product contains no organically-bound halogen.

Other ecotoxicological advice:  
The local regulations on waste-water treatment must be followed. Do not allow to enter soil, waterways or waste water channels.

## 13. Disposal considerations

### Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations. Dispose of in a RCRA-licensed facility.

### Container disposal:

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

RCRA: D002

D001

## 14. Transport Information

### Land transport

USDOT

Hazard class: 8  
Packing group: I  
ID number: UN 3095  
Hazard label: 8, 4.2  
Proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE)

### Sea transport

IMDG

Hazard class: 8  
Packing group: I  
ID number: UN 3095  
Hazard label: 8, 4.2  
Marine pollutant: NO  
Proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE)

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### Air transport

IATA/ICAO

Hazard class: 8

Packing group: I

ID number: UN 3095

Hazard label: 8, 4.2

Proper shipping name: CORROSIVE SOLID, SELF-HEATING, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE)

### Further information

Specific national features of transport regulations must be observed. They are to be found in the shipping documents.

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## 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.

#### NFPA Hazard codes:

Health: 3 Fire: 3 Reactivity: 2 Special: COR

#### HMIS III rating

Health: 3 Flammability: 3 Physical hazard: 2 (Water Reactive )

### Assessment of the hazard classes according to UN GHS criteria (most recent version):

Self-heat.	1	Self-heating substances and mixtures
Flam. Sol.	1	Flammable solids
Skin Corr./Irrit.	1A	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

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## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2022/10/17

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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