

Safety Data Sheet

NA-ETHYLATE SOL. 21 %

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Version: 6.0

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1. Identification

Product identifier used on the label

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Recommended use of the chemical and restriction on use

Recommended use*: Chemical

Recommended use*: Raw material; process chemical; initial product for chemical syntheses

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

Chemical family: alcohol, sodium salt

Synonyms: Sodium Ethanolate

2. Hazards Identification

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

Classification of the product

Flam. Liq.	3
Met. Corr.	1
Skin Corr.	1A

Flammable liquids
Corrosive to metals
Skin corrosion

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Eye Dam.

1

Serious eye damage

Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226

Flammable liquid and vapour.

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280

Wear protective gloves, protective clothing and eye protection or face protection.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260

Do not breathe mist or vapour.

P243

Take action to prevent static discharges.

P241

Use explosion-proof electrical, ventilating and lighting equipment.

P264

Wash contaminated body parts thoroughly after handling.

P234

Keep only in original packaging.

P233

Keep container tightly closed.

P242

Use non-sparking tools.

P240

Ground and bond container and receiving equipment.

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): 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.

P363

Wash contaminated clothing before reuse.

P390

Absorb spillage to prevent material damage.

P370 + P378

In case of fire: Use ... to extinguish.

Precautionary Statements (Storage):

P405

Store locked up.

P406

Store in a corrosion-resistant container with a resistant inner liner.

P403 + P235

Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501

Dispose of contents/container in accordance with local regulations.

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.
Possible risk by inhalation of aerosols.

3. Composition / Information on Ingredients

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

Ethanol

CAS Number: 64-17-5
Content (W/W): ≥ 75.0 - $\leq 100.0\%$
Synonym: Ethanol; Ethyl alcohol

sodium ethanolate

CAS Number: 141-52-6
Content (W/W): ≥ 15.0 - $< 25.0\%$
Synonym: Ethanol, sodium salt; Sodium ethoxide

Sodium Hydroxide

CAS Number: 1310-73-2
Content (W/W): ≥ 0.2 - $< 1.0\%$
Synonym: Sodium hydroxide; Caustic soda

4. First-Aid Measures

Description of first aid measures

General advice:

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

If inhaled:

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

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes. Remove 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:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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Information on: Ethanol

Symptoms: Overexposure may cause:, headache, dizziness, nausea, unconsciousness

Information on: sodium ethanolate

Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

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

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:
Risk of exothermic reaction. 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:

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

6. Accidental release measures

Further accidental release measures:

Release of substance/product can cause fire or explosion.

Personal precautions, protective equipment and emergency procedures

Sources of ignition should be kept well clear. Use personal protective clothing. Avoid inhalation. Avoid contact with skin and eyes.

Environmental precautions

Substance/product is RCRA hazardous due to its properties.

Methods and material for containment and cleaning up

Spills should be contained and placed in suitable containers for disposal.

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7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Protect against moisture. Protect against heat.

Protection against fire and explosion:

See SDS section 5 - Fire fighting measures.

Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Keep away from water.

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

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under dry nitrogen. Protect against moisture. Protect against heat. Keep away from sources of ignition - No smoking.

Storage stability:

Protect against moisture.

Protect from temperatures below: 0 °C

The product crystallizes below the limit temperature.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

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 ;

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Consult with glove manufacturer for testing data., Protective glove selection must be based on the user's assessment of the workplace hazards.

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Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

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:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	alcohol-like	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	yellow to brown	
pH value:	approx. 11	(ISO 1148)
Melting point:	No data available.	
Freezing point:	No data available.	
Boiling point:	approx. 91 °C	
Boiling range:	No data available.	
Sublimation point:	No applicable information available.	
Flash point:	23 °C	(DIN 51755)
Flammability:	Flammable liquid and vapour.	(other)
Lower explosion limit:	2.6 %(V)	(DIN 51649-1)
	Information applies to the solvent. For liquids not relevant for classification and labelling.	
Upper explosion limit:	19.0 %(V)	(DIN 51649-1)
	Information applies to the solvent. For liquids not relevant for classification and labelling.	
Vapour pressure:	approx. 165 mbar (50 °C)	(measured)
Relative density:	No applicable information available.	
Vapour density:	combustible vapours	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
<i>Information on: Ethanol</i>		
Partitioning coefficient n-octanol/water (log Pow):	-0.31 (25 °C)	(measured)
	Literature data.	

Self-ignition temperature:	not self-igniting	
Thermal decomposition:	It is not a self-decomposable substance.	
Viscosity, dynamic:	24 mPa.s (20 °C)	(DIN 51562)
Viscosity, kinematic:	approx. 27 mm ² /s (20 °C)	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	

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Solubility in water:	(20 °C) hydrolyzes
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	not determined, Value can be approximated from Henry's Law Constant or vapor pressure.

10. Stability and Reactivity

Reactivity

No applicable information available.

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

The product is chemically stable.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid contact with air. Avoid moisture.

Incompatible materials

water, acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: Sodium Hydroxide, Ethanol

Thermal decomposition:

It is not a self-decompositionable substance.

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

Oral

No applicable information available.

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Inhalation

Species: rat

Value: (IRT)

Exposure time: 8 h

No mortality within the stated exposition time as shown in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Dermal

No applicable information available.

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes. Causes serious eye damage.

Information on: Ethanol

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

Information on: Sodium Hydroxide

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

Information on: sodium ethanolate

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

Skin

Result: Corrosive.

Method: OECD Guideline 435

Information on: Sodium Hydroxide

Species: rabbit

Result: Corrosive.

Data refer to a diluted aqueous solution of the substance.

Eye

Species: rabbit

Result: irreversible damage

Method: BASF-Test

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

Sensitization

Assessment of sensitization: As the substance is corrosive, conducting sensitization studies is not feasible.

Information on: Ethanol

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

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Result: Non-sensitizing.

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

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No applicable information available.

Information on: Ethanol

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion. Repeated inhalative uptake of the substance did not cause substance-related effects. The substance may cause damage to the peripheral nervous system after repeated ingestion of high doses. The substance may cause damage to the central nervous system after repeated ingestion of high doses. Based on the chemical structure a neurotoxic effect by repeated administration cannot be excluded.

Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

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.

12. Ecological Information

Toxicity

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:

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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

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.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

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

Mobility in soil

Assessment transport between environmental compartments

Due to the product characteristics the test is impossible.

Additional information

Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not release untreated into natural waters.

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13. Disposal considerations

Waste disposal of substance:

Do not discharge into waterways or sewer systems without proper authorization. Dispose of in a RCRA-licensed facility. Dispose of in accordance with national, state and local regulations.

Container disposal:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

RCRA: D001

D002

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE, ETHANOL)

Sea transport

IMDG

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Marine pollutant: NO

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE, ETHANOL)

Air transport

IATA/ICAO

Hazard class: 8

Packing group: II

ID number: UN 2920

Hazard label: 8, 3

Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains SODIUM ETHYLATE/SODIUM ETHANOLATE, ETHANOL)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US

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All substances are TSCA listed and active.

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

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
100 LBS	64-17-5	Ethanol
Reportable Quantity for release:		1,000 lb

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	64-17-5	Ethanol
PA	64-17-5	Ethanol

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

WARNING: This product can expose you to chemicals including ETHANOL IN ALCOHOLIC BEVERAGES, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3 Fire: 3 Reactivity: 2 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2025/01/07

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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