

Safety Data Sheet

NA-ETHYLATE SOL. 21 %

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(30036708/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

NA-ETHYLATE SOL. 21 %

Recommended use of the chemical and restriction on use

Recommended use*: Chemical

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

* 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: 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	Flammable liquids
Met. Corr.	1	Corrosive to metals
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

Label elements

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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 dust or mist.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P264	Wash contaminated body parts thoroughly after handling.
P233	Keep container tightly closed.
P234	Keep only in original packaging.
P240	Ground and bond container and receiving equipment.
P242	Use only non-sparking tools.

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 + 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.
P390	Absorb spillage to prevent material damage.
P370 + P378	In case of fire: Use dry powder, alcohol-resistant foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.
P406	Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

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

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.

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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>
64-17-5	>= 75.0 - <= 100.0%	Ethanol
141-52-6	>= 15.0 - < 25.0%	sodium ethanolate
1310-73-2	>= 0.2 - < 1.0%	Sodium Hydroxide

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:

Flush immediately with water for 20-30 minutes. Immediate medical attention required.

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: skin corrosion, Eye irritation

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

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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.

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.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

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Ethanol	OSHA PEL	PEL 1,000 ppm 1,900 mg/m ³ ; TWA value 1,000 ppm 1,900 mg/m ³ ;
	ACGIH TLV	STEL value 1,000 ppm ;
Sodium Hydroxide	OSHA PEL	PEL 2 mg/m ³ ; CLV 2 mg/m ³ ;
	ACGIH TLV	CLV 2 mg/m ³ ;

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

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.

Hand protection:

Chemical resistant protective gloves, Consult with glove manufacturer for testing data.

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)
Boiling point:	approx. 91 °C	
Flash point:	23 °C	(DIN 51755)
Flammability:	Flammable liquid and vapour.	
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)	
Vapour density:	combustible vapours	
Partitioning coefficient n- octanol/water (log Pow):	not applicable	

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Information on: Ethanol

Partitioning coefficient n-octanol/water (log Pow): -0.31 (measured)
(25 °C)
Literature data.

Thermal decomposition: It is not a self-decompositionable substance.
Viscosity, dynamic: 24 mPa.s (DIN 51562)
(20 °C)
Viscosity, kinematic: approx. 27 mm²/s
(20 °C)
Solubility in water: (20 °C)
hydrolyzes
Evaporation rate: not determined, Value can be approximated from Henry's Law Constant or vapor pressure.

10. Stability and Reactivity

Reactivity

Corrosion to metals:
Corrosive effect on: Aluminium

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.

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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.

Irritation / corrosion

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

Information on: Sodium Hydroxide

Assessment of irritating effects: Highly 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: strongly corrosive

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.

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

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.

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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.

Symptoms of Exposure

skin corrosion, Eye irritation

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 SDS section 11 - Toxicological information.

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:

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.

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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.

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

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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 released / listed

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>
1000 LBS	1310-73-2	Sodium Hydroxide
100 LBS	64-17-5	Ethanol
1 LBS	7439-97-6	mercury

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

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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: 2019/11/26

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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