1. Substance/preparation and company identification

**Na-Ethylate cryst.**

Use: Chemical

**Company:**
BASF Aktiengesellschaft
Unternehmensbereich Anorganika E-CAA
67056 Ludwigshafen, Deutschland
Telephone: +49-621-60-76416
Telefax number: +49-621-60-76318
E-mail address: claudia.kraeh@basf-ag.de

**Emergency information:**
Fire brigade BASF Ludwigshafen
Telephone: 0621-60-43333
Telefax number: 0621-60-92664

2. Composition/information on ingredients

**Chemical nature**

- sodium ethanolate
  
  - CAS Number: 141-52-6
  - EG-Number: 205-487-5
  - INDEX-Number: 603-041-00-8

3. Hazard identification

- Highly flammable.
- Reacts violently with water.
- Causes severe burns.

4. First-aid measures

**General advice:**
Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.
If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

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

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

On ingestion:
Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

5. Fire-fighting measures

Suitable extinguishing media:
dry extinguishing media, carbon dioxide, foam, sand

Unsuitable extinguishing media for safety reasons:
water

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

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

6. Accidental release measures

Personal precautions:
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 for cleaning up or taking up:
For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.
For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.
7. Handling and storage

Handling

Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Protect against moisture. Protect from air. Protect from direct sunlight.

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. Avoid dust formation.

Storage

Segregate from acids and acid forming substances.
Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P2, medium efficiency, (solid and liquid particles of harmful substances).

Hand protection:
Use gauntlets.
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
- butyl rubber (butyl) - 0.7 mm coating thickness
- fluoroelastomer (FKM) - 0.7 mm coating thickness
Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance to EN 374. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Tightly fitting safety goggles (cage goggles) (EN 166) and face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:
Avoid contact with the skin, eyes and clothing. Do not breathe dust.
9. Physical and chemical properties

Form: powder, crystalline
Colour: white to slightly yellow
Odour: odourless

pH value: 12.8
(7 g/l, 20 °C)

Flash point: See user defined text.

Bulk density: approx. 500 kg/m³
(< 40 °C)

Solubility in water: hydrolyzes
Solubility (qualitative) solvent(s): alcohols soluble

10. Stability and reactivity

Thermal decomposition: > 280 °C
The indicated value is for inert gas atmosphere.

Thermal decomposition: > 50 °C
Risk of spontaneous ignition when exposed to air.

Substances to avoid:
water, acids

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.

Hazardous decomposition products:
sodium hydroxide, ethanol

11. Toxicological information

Information on: sodium methanolate
Primary skin irritation/rabbit: strongly corrosive (BASF-Test)

Information on: sodium hydroxide (50%)
Primary skin irritation/rabbit: strongly corrosive
Similar findings as for skin apply to eyes.

----------------------------------
Information on: sodium methanolate
Primary irritations of the mucous membrane:
As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

Information on: sodium hydroxide (50%)
Primary irritations of the mucous membrane/human: Based on its pH, the product is regarded as corrosive.

Additional information:
The toxicity of the product is based on its corrosivity.
The data given refers to the decomposition or transformation products.

12. Ecological information

Persistence and degradability

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

Other adverse effects

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

Additional information

Other ecotoxicological advice:
Do not release untreated into natural waters. 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. The local regulations on waste-water treatment must be followed.

13. Disposal considerations

Hydrolyze product with excess of water under usage of the personal protection equipment and dispose of in accordance with local authority regulations.
Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
14. Transport information

**Land transport**

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**Inland waterway transport**

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**Sea transport**

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**Air transport**

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Exact technical name

ALKALI METAL ALCOHOLATES,
SELF-HEATING, CORROSIVE, 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.

15. Regulatory information

**Regulations of the European union (Labelling) / National legislation/Regulations**

EG-Number: 205-487-5

**ANNEX I (Index of dangerous substances):**

Hazard symbol(s)
F  Highly flammable.
C  Corrosive.

R-phrase(s)
R11  Highly flammable.
R14  Reacts violently with water.
R34  Causes burns.

S-phrase(s)
S8   Keep container dry.
S16  Keep away from sources of ignition - No smoking.
S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S43.5 In case of fire, use extinguishing powder or sand. Never use water.
S45  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Hazard determinant component(s) for labelling:** SODIUM ETHYLATE / SODIUM ETHANOLATE

**Self classification:**

Hazard symbol(s)
F  Highly flammable.
C  Corrosive.

R-phrase(s)
R11  Highly flammable.
R14  Reacts violently with water.
R35  Causes severe burns.

S-phrase(s)
S3   Keep in a cool place.
S7/8  Keep container tightly closed and dry.
S16  Keep away from sources of ignition - No smoking.
S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S43.5 In case of fire, use extinguishing powder or sand. Never use water.
S45  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard determinant component(s) for labelling: SODIUM ETHYLATE / SODIUM ETHANOLATE

**Other regulations**

Hazardous Incident Ordinance (Germany):


During storage the regulations must be observed, valid for substances with water hazard class 1.

**16. Other information**

Recommended use: dyes, crop protection agents, pharmaceuticals

Recommended use: wood preservative, catalyst, cosmetics, fragrances, pesticides, stabilizer, initial product for chemical syntheses

printing ink industry textile industry

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.