

# Safety Data Sheet

## Na-Methylate sol. 25 %

Revision date : 2025/03/07

Version: 7.0

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(30036697/SDS\_GEN\_US/EN)

### 1. Identification

**Product identifier used on the label**

**Na-Methylate sol. 25 %**

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

Recommended use\*: Chemical

Recommended use\*: Intermediate; process chemical; catalyst

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

Synonyms: Sodium Methylate Solution 25%

Sodium Methoxide Solution 25%

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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. Liq. 3

Flammable liquids

Met. Corr. 1

Corrosive to metals

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Acute Tox.	3 (Inhalation - vapour)	Acute toxicity
Acute Tox.	3 (oral)	Acute toxicity
Acute Tox.	3 (dermal)	Acute toxicity
Skin Corr.	1A	Skin corrosion
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	1	Specific target organ toxicity — single exposure

### 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.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs (Central nervous system, Optic nerve).

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe mist or vapour or spray.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P264	Wash contaminated body parts thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P234	Keep only in original packaging.
P242	Use non-sparking tools.
P240	Ground and bond container and receiving equipment.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
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 ... to extinguish.

Precautionary Statements (Storage):

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P233	Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in a corrosion-resistant container with a resistant inner liner.

### Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered. 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.

## 3. Composition / Information on Ingredients

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

#### Methanol

CAS Number: 67-56-1  
Content (W/W):  $\geq 50.0$  -  $\leq 100.0\%$   
Synonym: Methanol; Methyl alcohol

#### sodium methanolate

CAS Number: 124-41-4  
Content (W/W):  $\geq 20.0$  -  $< 50.0\%$   
Synonym: Methanol, sodium salt; Sodium methanolate

#### Sodium Hydroxide

CAS Number: 1310-73-2  
Content (W/W):  $> 0.0$  -  $< 1.0\%$   
Synonym: Sodium hydroxide; Caustic soda

## 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.

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### 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: skin corrosion, irritates the eyes and respiratory tract, blindness, 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., (Further) symptoms and / or effects are not known so far

*Information on: Methanol*

*Symptoms: Overexposure may cause:, headache, dizziness, respiratory disorders, nausea, acidosis, coma, blindness*

*Information on: sodium methanolate*

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

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Hazards: No data available.

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

#### Note to physician

Treatment:	Administration of ethanol resp. 4-methylpyrazole. Symptomatic treatment (decontamination, vital functions). The contamination by the substance may be ascertained by determining the content in the blood and/or urine.
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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:  
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.

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### 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:

Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges. Use antistatic tools. Render equipment and apparatus inert (nitrogen, inert gases) and ground before putting into operation. Fire extinguishers should be kept handy.

#### **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), glass, Low density polyethylene (LDPE), Stainless steel 1.4541, Stainless steel 1.4571

Unsuitable materials for containers: Aluminium, Galvanized carbon steel (Zinc), Paper/Fibreboard

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.

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### 8. Exposure Controls/Personal Protection

#### **Components with occupational exposure limits**

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Methanol	ACGIH, US:	TWA value 200 ppm ;
	ACGIH, US:	STEL value 250 ppm ;
	OSHA Z1:	PEL 200 ppm 260 mg/m3 ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	NIO ID, US:	IDLH 6,000 ppm ; IDLH values based on the 1994 Revised Criteria
	NIO ID, US:	LEL 6.0 % ;
Sodium Hydroxide	ACGIH, US:	CLV 2 mg/m3 ;
	OSHA Z1:	PEL 2 mg/m3 ;
	NIO ID, US:	IDLH 10 mg/m3 ; IDLH values based on the 1994 Revised Criteria

### 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.

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

#### Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Suitable materials may include, butyl rubber, fluoroelastomer (Viton), nitrile rubber (Buna N), chloroprene rubber (Neoprene), polyvinylchloride (Pylox), Consult with glove manufacturer for testing data., Protective glove selection must be based on the user's assessment of the workplace hazards.

#### 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.

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## 9. Physical and Chemical Properties

Form:	liquid
Odour:	alcohol-like
Odour threshold:	Not determined due to potential health hazard by inhalation.

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Colour:	colourless to yellowish	
pH value:	approx. 11	(ISO 1148)
crystallization temperature:	-2 °C	
Melting point:	No data available.	
Freezing point:	No data available.	
Boiling point:	85 °C ( 1,013 mbar)	
Flash point:	29 °C	(DIN 51755)
Flammability:	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: Methanol</i>		
Lower explosion limit:	5.5 %(V)	
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Upper explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: Methanol</i>		
Upper explosion limit:	36.5 %(V)	
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Autoignition:	not determined	
<i>Information on: Methanol</i>		
Autoignition:	455 °C	
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Vapour pressure:	approx. 46 mbar ( 20 °C) approx. 220 mbar ( 50 °C)	
Density:	0.944 g/cm3 ( 20 °C)	(ISO 2811-3)
	0.918 g/cm3 ( 50 °C)	(ISO 2811-3)
Relative density:	not determined	
Bulk density:	not applicable	
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
<i>Information on: Methanol</i>		
Partitioning coefficient n-octanol/water (log Pow):	-0.77 ( 20 °C)	(measured)
-----		
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	It is not a self-decompositionable substance.	
Viscosity, dynamic:	27 mPa.s ( 20 °C)	
Viscosity, kinematic:	not determined	
Solubility in water:	( 20 °C) hydrolyzes	
Miscibility with water:	( 15 °C) Reacts with water.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

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### 10. Stability and Reactivity

#### Reactivity

Corrosion to metals:  
Corrosive effect on: Aluminium

Oxidizing properties:  
not fire-propagating

Formation of flammable gases:	Remarks:	The product liberates flammable gases in contact with water.
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#### Chemical stability

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

#### Possibility of hazardous reactions

The product is chemically stable.  
Violent reaction under influence of oxidizing agents. Reacts with water and acids.

#### Conditions to avoid

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

#### Incompatible materials

carbon dioxide, water, acids, substances with an acid reaction, light metals

#### Hazardous decomposition products

Decomposition products:  
Hazardous decomposition products: Sodium Hydroxide, Methanol

Thermal decomposition:  
It is not a self-decompositionable substance.

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### 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: Of pronounced toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of pronounced toxicity after short-term inhalation. The toxicity of the product is based on its corrosivity.

##### *Information on: Methanol*

*Assessment of acute toxicity: Of high toxicity after single ingestion. Of high toxicity after short-term inhalation. Of high toxicity after short-term skin contact.*

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### Oral

*Information on: sodium methanolate*

*Type of value: LD50*

*Species: rat (male/female)*

*Value: 1,687 mg/kg (OECD Guideline 401)*

*An aqueous solution was tested.*

*Information on: Methanol*

*Type of value: LD50*

*Species: rat*

*Value: > 1187 - 2769 mg/kg (BASF-Test)*

### 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.

*Information on: Methanol*

*Type of value: LC50*

*Species: rat (male/female)*

*Value: 128 mg/l (BASF-Test)*

*Exposure time: 4 h*

*The vapour was tested.*

### Dermal

*Information on: Methanol*

*Type of value: LD50*

*Species: rabbit*

*Value: 17100 mg/kg (other)*

### Assessment other acute effects

Assessment of STOT single:

A single exposure to small quantities may have toxic effects on specific organs.

### Irritation / corrosion

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

*Information on: sodium methanolate*

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

### Skin

*Species: rabbit*

*Result: Corrosive.*

*Method: BASF-Test*

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

### 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: sodium methanolate*

*Assessment of sensitization:*

*As the substance is corrosive, conducting sensitization studies is not feasible. The chemical structure does not suggest a sensitizing effect.*

*Information on: Methanol*

*Assessment of sensitization:*

*Skin sensitizing effects were not observed in animal studies.*

### Aspiration Hazard

Toxic if swallowed.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

*Information on: Methanol*

*Assessment of repeated dose toxicity: The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.*

### 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.

Not classified, due to lack of data.

### Reproductive toxicity

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

Not classified, due to lack of data.

### Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect. Not classified, due to lack of data.

### Experiences in humans

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*Information on: Methanol*  
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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

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

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: Methanol*

*LC50 (96 h) 15,400 mg/l, Lepomis macrochirus (other, Flow through.)*  
-----

### Persistence and degradability

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

The product is unstable in water. The elimination data also refer to products of hydrolysis.

Elimination information

*Information on: Methanol*

*95 % BOD of the ThOD (20 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable (according to OECD criteria).*  
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### Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is not expected.

### 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:**

Incinerate or dispose of in a RCRA-licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

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### 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.

## 14. Transport Information

### Land transport

USDOT

Hazard class: 3  
Packing group: III  
ID number: UN 1289  
Hazard label: 3, 8  
Proper shipping name: SODIUM METHYLATE SOLUTION

### Sea transport

IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1289  
Hazard label: 3, 8  
Marine pollutant: NO  
Proper shipping name: SODIUM METHYLATE SOLUTION

### Air transport

IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1289  
Hazard label: 3, 8  
Proper shipping name: SODIUM METHYLATE SOLUTION

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US

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.

#### EPCRA 313:

##### CAS Number

67-56-1

7439-97-6

Chemical name

Methanol

mercury

##### CERCLA RQ

5000 LBS

1000 LBS

##### CAS Number

67-56-1

124-41-4

##### Chemical name

Methanol

sodium methanolate

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**Reportable Quantity for release:** 100 lb

### State regulations

#### State RTK

NJ

#### CAS Number

124-41-4

67-56-1

PA

67-56-1

124-41-4

#### Chemical name

sodium methanolate

Methanol

Methanol

sodium methanolate

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

**WARNING:** This product can expose you to chemicals including METHANOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **NFPA Hazard codes:**

Health: 3

Fire: 3

Reactivity: 1

Special:

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2025/03/07

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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