

# Safety Data Sheet

## K-Methylate sol. 32 %

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(30036706/SDS\_GEN\_US/EN)

### 1. Identification

**Product identifier used on the label**

**K-Methylate sol. 32 %**

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

Recommended use\*: Chemical

Recommended use\*: process chemical; Intermediate; 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, potassium salt

Synonyms: POTASSIUM METHYLATE SOLUTION IN 32% METHANOL  
POTASSIUM METHOXIDE SOLUTION

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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  
Met. Corr. 1

Flammable liquids  
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./Irrit.	1B	Skin corrosion/irritation
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.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H370	Causes damage to organs (Central nervous system, Optic nerve).
H314	Causes severe skin burns and eye damage.

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.
P261	Avoid breathing vapours.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/gas/mist/vapours.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P234	Keep only in original packaging.
P240	Ground and bond container and receiving equipment.
P242	Use non-sparking tools.

Precautionary Statements (Response):

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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	IF SWALLOWED:
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P390	Absorb spillage to prevent material damage.
P370 + P378	In case of fire: Use foam, dry powder or dry sand for extinction.

### Precautionary Statements (Storage):

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 and container to hazardous or special waste collection point.
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## Hazards not otherwise classified

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

## 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):  $\geq 50.0$  -  $< 75.0\%$   
Synonym: Methanol; Methyl alcohol

#### potassium methanolate

CAS Number: 865-33-8  
Content (W/W):  $\geq 25.0$  -  $< 50.0\%$   
Synonym: Methanol, potassium salt; Potassium methanolate

#### Potassium hydroxide

CAS Number: 1310-58-3  
Content (W/W):  $> 0.0$  -  $< 1.0\%$   
Synonym: Potassium hydroxide

## 4. First-Aid Measures

### Description of first aid measures

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

### 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:  
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.

### 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, Stainless steel 1.4541, Stainless steel 1.4571

Unsuitable materials for containers: 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.

### 8. Exposure Controls/Personal Protection

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

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

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Potassium hydroxide      ACGIH, US:    CLV 2 mg/m3 ;

### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Wear the following respiratory protection if exposure limit for methanol may be exceeded: At concentrations > 200 ppm, use an air-supplied or self-contained breathing apparatus (i.e. positive-pressure).

#### Hand protection:

Wear 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. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	alcohol-like	
Odour threshold:	Not determined since toxic by inhalation.	
Colour:	colourless to yellowish	
pH value:	approx. 11	(ISO 1148)
	The products resulting from hydrolysis react strongly alkaline.	
Boiling point:	approx. 92 °C ( 1,013 mbar)	
Flash point:	31 °C	(DIN 51755)
Lower explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: Methanol</i>		
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
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Upper explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: Methanol</i>		
Upper explosion limit:	For liquids not relevant for classification and labelling.	
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Autoignition:	455 °C	(DIN 51794)

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### Information on: Methanol

Autoignition: 455 °C

Density: 0.98 g/cm<sup>3</sup> (ISO 2811-3)

( 20 °C)

0.975 g/cm<sup>3</sup> (ISO 2811-3)

( 50 °C)

0.9687 g/cm<sup>3</sup>

( 55 °C)

Relative density: No data available.

### Information on: Methanol

Partitioning coefficient n-octanol/water (log Pow): -0.77 (measured)

( 20 °C)

Literature data.

Self-ignition temperature: The substance does not initiate an exothermic reaction under test conditions. not self-igniting

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

Viscosity, dynamic: 18 mPa.s

( 20 °C)

Viscosity, kinematic: No data available.

Particle size: The substance / product is marketed or used in a non solid or granular form.

Solubility in water: ( 20 °C)

hydrolyzes

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

## 10. Stability and Reactivity

### Reactivity

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

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Decomposition products:

Hazardous decomposition products: Potassium hydroxide, Methanol

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: Toxic in contact with skin. Toxic by inhalation. Toxic if swallowed.

*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.*

#### Oral

The product has not been tested. The statement has been derived from the properties of the individual components.

Type of value: ATE

Value: 145 mg/kg

#### Inhalation

*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)*

#### Irritation / corrosion

Assessment of irritating effects: Corrosive to skin and/or eyes.

Causes severe burns. Risk of serious damage to eyes.

The break through time determined in the in-vitro membrane barrier test indicates that the test substance is expected to cause skin necrosis in vivo within 14 days after a 1-hour exposure.



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### Skin

Species: rabbit

Result: Corrosive.

Method: similar to OECD guideline 404

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

### Eye

Species: rabbit

Result: Risk of serious damage to eyes.

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.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: similar to OECD guideline 406

The product has not been tested.

Closed-patch Test

Species: human

Result: Non-sensitizing.

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

Toxic if swallowed.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: There is a possibility of liver damage. The substance may cause damage to the central nervous system after repeated skin contact with high doses.

*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.

*Information on: potassium methanolate*

*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: Methanol*

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*Assessment of mutagenicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.*

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### Carcinogenicity

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

### *Information on: Methanol*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given in the drinking water in high concentrations, a carcinogenic effect was observed. These effects are not relevant to humans at occupational levels of exposure.*

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### Reproductive toxicity

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

### *Information on: Methanol*

*Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.*

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### Teratogenicity

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

### *Information on: Methanol*

*Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.*

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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.

#### Aquatic toxicity

#### *Information on: Potassium hydroxide*

*Assessment of aquatic toxicity:*

*At the present state of knowledge, no negative ecological effects are expected.  
The product gives rise to pH shifts. Study scientifically not justified.*

#### *Information on: Methanol*

*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.*

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### Toxicity to fish

*Information on: Methanol*

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

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### Aquatic invertebrates

*Information on: Methanol*

*EC50 (48 h) 18,260 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)*

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### Aquatic plants

*Information on: Methanol*

*EC50 (96 h) approx. 22,000 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)*

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

### Toxicity to microorganisms

*Information on: Methanol*

*OECD Guideline 209 aquatic*

*activated sludge of a predominantly domestic sewage/EC50 (3 h): > 1,000 mg/l*

*Inhibition of nitrification aquatic*

*Bacteria/EC50 (24 h): 880 mg/l*

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## **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.

### Assessment biodegradation and elimination (H2O)

*Information on: Potassium hydroxide*

*Not applicable for inorganic substances.*

*Information on: Methanol*

*Readily biodegradable (according to OECD criteria).*

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### Elimination information

*Information on: Methanol*

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

### Bioaccumulative potential

#### Assessment bioaccumulation potential

Information on: Methanol

Significant accumulation in organisms is not to be expected.

Information on: Potassium hydroxide

Accumulation in organisms is not to be expected.

### 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.

## 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. Dispose of in a RCRA-licensed facility.

### **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

## 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 POTASSIUM METHANOLATE, METHANOL) SOLUTION

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### 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 POTASSIUM METHANOLATE, METHANOL) SOLUTION

### 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 POTASSIUM METHANOLATE, METHANOL) SOLUTION

## 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.

#### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
67-56-1	Methanol

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	67-56-1	Methanol
1000 LBS	1310-58-3	Potassium hydroxide
1 LBS	7439-97-6	mercury
<b>Reportable Quantity for release:</b>		7,336.8 lb

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	67-56-1	Methanol
PA	67-56-1	Methanol

### 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:

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

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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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