

Safety Data Sheet

K-Methylate Crystals

Revision date : 2014/06/11

Version: 1.0

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(30,036,705/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

K-Methylate Crystals

Recommended use of the chemical and restriction on use

Recommended use*: for industrial use only

* The "Recommended use" identified for this product is provided solely to comply with a US 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

Molecular formula: CH₃OK
Chemical family: alcohol, potassium salt
Synonyms: Potassium Methylate Use: chemical

2. Hazards Identification

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

Classification of the product

Flam. Sol.	1	Flammable solid
Self-heat.	1	Self-heating substance or mixture
Met. Corr.	1	Substance or mixture corrosive to metals
Acute Tox.	4 (oral)	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

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Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H228	Flammable solid.
H290	May be corrosive to metals.
H251	Self-heating: may catch fire.
H302	Harmful 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/eye protection/face protection.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P260	Do not breathe dust/gas/mist/vapours.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P235 + P410	Keep cool. Protect from sunlight.
P264	Wash with plenty of water and soap thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P240	Ground/bond container and receiving equipment.
P234	Keep only in original container.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/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.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
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.
P301 + P330	IF SWALLOWED: rinse mouth.
P370 + P378	In case of fire: Use (...) for extinction.
P390	Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P405	Store locked up.
P407	Maintain air gap between stacks/pallets.
P413	Store bulk masses greater than 1,000 kg/2,205 lbs at temperatures not exceeding 25 °C/77 °F.
P420	Store away from other materials.
P406	Store in corrosive resistant/... container with a resistant inner liner.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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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. When finely distributed, self-ignition is possible.

Labeling of special preparations (GHS):

Reacts violently with water.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

DANGER:

FLAMMABLE SOLID.

CORROSIVE.

REACTS VIOLENTLY WITH WATER.

Self-heating: may catch fire.

Corrosive to skin and/or eyes.

Harmful if swallowed.

CAN CAUSE NERVOUS SYSTEM DAMAGE.

Dust can form an explosive mixture with air.

Eye wash fountains and safety showers must be easily accessible.

Wear NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

Wear protective clothing.

Wear full face shield if splashing hazard exists.

3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
865-33-8	$\geq 75.0 - \leq 100.0$ %	potassium methanolate
67-56-1	$\geq 1.0 - < 3.0$ %	Methanol
1310-58-3	$\geq 0.3 - < 3.0$ %	Potassium hydroxide

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
865-33-8	$\geq 80.0 - \leq 100.0$ %	potassium methanolate
67-56-1	$\geq 1.0 - \leq 5.0$ %	Methanol
1310-58-3	$\geq 0.5 - \leq 5.0$ %	Potassium hydroxide

4. First-Aid Measures

Description of first aid measures

General advice:

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

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

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If on skin:

Wash affected areas with water while removing contaminated clothing. Immediate medical attention required.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., skin corrosion, irritates the eyes and respiratory tract, Further symptoms are possible

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: Symptomatic treatment (decontamination, vital functions).

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:
corrosive gases/vapours

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Collect contaminated extinguishing water separately, 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, protective equipment and emergency procedures

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Avoid contact with the skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

Substance/product is RCRA hazardous due to its properties.

Methods and material for containment and cleaning up

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

7. Handling and Storage

Precautions for safe handling

Use with local exhaust ventilation. Avoid dust formation. Protect against moisture. Protect from air. Protect from direct sunlight. Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:

See MSDS section 5 - Fire fighting measures. See MSDS section 10 - Stability and reactivity.

Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen.

Storage stability:

Protect against moisture.

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Methanol	OSHA PEL ACGIH TLV	PEL 200 ppm 260 mg/m ³ ; TWA value 200 ppm ; STEL value 250 ppm ; Skin Designation ; The substance can be absorbed through the skin.
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Potassium hydroxide	ACGIH TLV	CLV 2 mg/m ³ ;
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Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

Hand protection:

Chemical resistant protective gloves

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Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Protective coverall and/or impermeable apron and boots as necessary.

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Avoid inhalation of dusts. Store work clothing separately.

9. Physical and Chemical Properties

Form:	powder, crystalline	
Odour:	odourless	
Colour:	white to light yellow	
Melting point:	359 - 400 °C	(1,013 hPa) (Directive 92/69/EEC, A.1) The substance / product decomposes.
decomposition point:	384 - 430 °C	(1,013 hPa) (Directive 92/69/EEC, A.1)
Boiling point:		(1,013 hPa) (Directive 92/69/EEC, A.2) Cannot be distilled without decomposition at normal pressure.
Flash point:		Study technically not feasible.
Flammability:	Highly flammable.	(Directive 84/449/EEC, A.10)
Lower explosion limit:		For solids not relevant for classification and labelling.
Upper explosion limit:		For solids not relevant for classification and labelling.
Vapour pressure:	< 0.000001 hPa	(25 °C) (calculated)
Density:	1.7 g/cm ³	(20 °C) Literature data.
Relative density:	1.7	(20 °C) Literature data.
Bulk density:	approx. 900 kg/m ³	(< 40 °C) (DIN 53466)
Vapour density:		The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	-0.72	(25 °C) (calculated)
<i>Information on: Methanol</i>		
Partitioning coefficient n-octanol/water (log Pow):	-0.77	(20 °C) (measured) Literature data.

Self-ignition temperature:	70 °C	(Directive 92/69/EEC, A.16) not self-igniting
Thermal decomposition:	> 300 °C (DTA) The indicated value is for inert gas atmosphere. > 50 °C Risk of spontaneous ignition when exposed to air.	
Viscosity, dynamic:		Study technically not feasible.
Particle size:	44 µm	(measured)
Solubility in water:		Study scientifically not justified.
Solubility (qualitative):	soluble solvent(s): alcohols,	
Evaporation rate:		The product is a non-volatile solid.

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10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effect on metals.

Formation of

Remarks:

The product liberates flammable gases in contact with water.

flammable gases:

Method:

Flammability (contact with water)

Chemical stability

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

Possibility of hazardous reactions

Reacts with water. Exothermic reaction with the formation of methanol and potassium hydroxide.

Substance/product is highly reactive. Exothermic reactions with water liberate methanol and potassium hydroxide.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge. Avoid moisture.

Avoid heat.

Incompatible materials

water, acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: Potassium hydroxide, Methanol

Thermal decomposition:

> 300 °C (DTA)

The indicated value is for inert gas atmosphere.

> 50 °C

Risk of spontaneous ignition when exposed to air.

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.

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

Type of value: ATE

Species: rat

Value: 1,202 mg/kg (OECD Guideline 401)

See user defined text.

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

Information on: potassium methanolate

Type of value: LD50

Species: rat

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

An aqueous solution was tested.

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: LD50

Species: rat

Value: (BASF-Test)

Information on: Potassium hydroxide

Type of value: LD50

Species: rat (male)

Value: 333 mg/kg (OECD Guideline 425)

Literature data.

Inhalation

Study does not need to be conducted.

Dermal

Type of value: LD50

Species: rabbit

Value: > 2,000 mg/kg (BASF-Test)

An aqueous solution was tested.

No mortality was observed. 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.

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.

Skin

Species: rabbit

Result: Corrosive.

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

Result: Corrosive.

Method: OECD Guideline 435

Eye

Species: rabbit

Result: Risk of serious damage to eyes.

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.

Sensitization

Assessment of sensitization: No data available. The chemical structure does not suggest a sensitizing effect.

Aspiration Hazard

Harmful if swallowed.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Study does not need to be conducted.

Genetic toxicity

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.

Carcinogenicity

Assessment of carcinogenicity: Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity: Study does not need to be conducted.

Teratogenicity

Assessment of teratogenicity: Study does not need to be conducted.

Other Information

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

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., skin corrosion, irritates the eyes and respiratory tract, Further symptoms are possible

Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the skin or dermatitis may have increased susceptibility to excessive exposures. See MSDS section 11 - Toxicological information.

12. Ecological Information

Toxicity

Aquatic toxicity

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.

The product has not been tested. The statement has been derived from the properties of the hydrolysis products. The product gives rise to pH shifts.

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Toxicity to fish

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

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

Aquatic invertebrates

EC50 (48 h) > 10,000 mg/l, *Daphnia magna* (DIN 38412 Part 11, static)

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

Aquatic plants

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

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

Chronic toxicity to fish

No observed effect concentration (200 h) 7,900 mg/l, *Oryzias latipes* (static)

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

Chronic toxicity to aquatic invertebrates

Study scientifically not justified.

Toxicity to fish

Information on: Methanol

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

Aquatic invertebrates

Information on: methanol

LC50 (48 h) > 10,000 mg/l, *Daphnia magna*

Literature data.

Information on: potassium hydroxide

EC50 (48 h) 40.4 mg/l, *Ceriodaphnia dubia* (other, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic plants

Information on: Methanol

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

Assessment of terrestrial toxicity

Study scientifically not justified.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 static

activated sludge/EC50 (3 h): > 1,000 mg/l

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

Information on: Methanol
Inhibition of nitrification aquatic
Bacteria/EC50 (24 h): 880 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O)
Readily biodegradable (according to OECD criteria).

Elimination information

90 - 100 % BOD of the ThOD (20 d) (aerobic, activated sludge, domestic)
Literature data. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment biodegradation and elimination (H2O)

Information on: Methanol

Readily biodegradable (according to OECD criteria).

Assessment of stability in water

In contact with water the substance will hydrolyse rapidly.

Bioaccumulative potential

Assessment bioaccumulation potential
Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: 4.5 (72 h), *Cyprinus carpio* (measured)
The product has not been tested. The statement has been derived from the properties of the hydrolysis products.

Assessment bioaccumulation potential

Information on: Methanol

Significant accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments
The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is not expected.

Additional information

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

Other ecotoxicological advice:

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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. After neutralization only the relatively minor harmful effect of the resulting salts remains. The local regulations on waste-water treatment must be followed.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations. 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: 4.2
Packing group: II
ID number: UN 3206
Hazard label: 4.2, 8
Proper shipping name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. (contains POTASSIUM METHANOLATE)

Sea transport

IMDG

Hazard class: 4.2
Packing group: II
ID number: UN 3206
Hazard label: 4.2, 8
Marine pollutant: NO
Proper shipping name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. (contains POTASSIUM METHANOLATE)

Air transport

IATA/ICAO

Hazard class: 4.2
Packing group: II
ID number: UN 3206
Hazard label: 4.2, 8
Proper shipping name: ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. (contains POTASSIUM METHANOLATE)

Further information

Specific national features of transport regulations must be observed. They are to be found in the shipping documents.

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories):

Reactivity; Acute; Chronic

<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
Reportable Quantity for release:		100 lb

State regulations

State RTK

MA, NJ, PA
MA, NJ, PA

CAS Number

67-56-1
1310-58-3

Chemical name

Methanol
Potassium hydroxide

NFPA Hazard codes:

Health : 3 Fire: 3 Reactivity: 2 Special: C

HMIS III rating

Health: 3 Flammability: 3 Physical hazard: 3 (Water Reactive)

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Skin Corr./Irrit.	1B	Skin corrosion/irritation
Acute Tox.	4 (oral)	Acute toxicity
Self-heat.	1	Self-heating substance or mixture
Met. Corr.	1	Substance or mixture corrosive to metals
Flam. Sol.	1	Flammable solid
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	1	Specific target organ toxicity — single exposure

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2014/06/11

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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