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Date  
15.09.2022

**Safety Data Sheet**

Dear Sir or Madam,

Please find as attachment to this message safety data sheets / a safety data sheet for the ordered products of the Evonik Group.

The safety data sheet informs you about properties and effects of the product which are of relevance for operational safety and environment protection.

We request you to pass on this information to all persons handling the product.

Earlier versions of the safety data sheet become invalid with communication of this version.

Kind regards

Evonik Operations GmbH

Enclosure

Safety Data Sheet

This message was generated automatically and does not bear a signature.



Product name: Sodium methylate Solution 30%

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name:**

Sodium methylate Solution 30%

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Identified uses:**Preliminary / intermediate product for organic syntheses  
Organic intermediate/s**Uses advised against:**

Not determined.

**1.3 Details of the supplier of the safety data sheet**Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 2365 49 84437

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**1.4 Emergency telephone number:**24-Hour Health : +49 2365 49 2232  
Emergency : +49 2365 49 4423 (Fax)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

The product has been classified according to the legislation in force.

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)****Physical Hazards**

Flammable liquids	Category 3	H226: Flammable liquid and vapor.
Corrosive to metal	Category 1	H290: May be corrosive to metals.

**Health Hazards**

Acute toxicity (Oral)	Category 3	H301: Toxic if swallowed.
Acute toxicity (Dermal)	Category 3	H311: Toxic in contact with skin.
Acute toxicity (Inhalation - vapor)	Category 3	H331: Toxic if inhaled.
Skin corrosion	Category 1A	H314: Causes severe skin burns and eye damage.

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**Product name: Sodium methylate Solution 30%**

Serious eye damage  
Specific Target Organ Toxicity -  
Single Exposure

Category 1  
Category 1

H318: Causes serious eye damage.  
H370: Causes damage to organs.

**2.2 Label Elements**

**Contains:**

methanol  
sodium methoxide



**Signal Words:**

Danger

**Hazard Statement(s):**

H226: Flammable liquid and vapor.  
H290: May be corrosive to metals.  
H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled.  
H314: Causes severe skin burns and eye damage.  
H370: Causes damage to organs.

**Precautionary Statements**

**Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P310: Immediately call a POISON CENTER or doctor/ physician.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370+378: In case of fire: Use dry sand or extinguishing powder. Never use water.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Supplemental label information**

EUH071: Corrosive to the respiratory tract.  
EUH014: Reacts violently with water.

**2.3 Other hazards**

Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors.

Formation of flammable or explosive vapour/air mixtures possible.

**Results of PBT and vPvB assessment**

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

**SECTION 3: Composition/information on ingredients**

**Product name: Sodium methylete Solution 30%**

### 3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
sodium methoxide	30%	124-41-4	204-699-5	01-2119519241-51	No data available.	
methanol	70%	67-56-1	200-659-6	01-2119433307-44	No data available.	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC.

#### Classification

Chemical name	Classification	Notes
sodium methoxide	Classification: Flam. Sol.: 1: H228; Self-heat.: 1: H251; Met. Corr.: 1: H290; Acute Tox.: 4: H302; Skin Corr.: 1A: H314; Eye Dam.: 1: H318;  Supplemental label information: EUH014, EUH071;	Note T
methanol	Classification: Flam. Liq.: 2: H225; Acute Tox.: 3: H301; Acute Tox.: 3: H311; Acute Tox.: 3: H331; STOT SE: 1: H370;  Supplemental label information: None known.	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

### 4.1 Description of necessary first-aid measures

#### General information:

Pay attention to self-protection. Move out of dangerous area. Immediately remove contaminated clothing. Keep patient warm and at rest. Do not leave the victim unattended. Place patients who are unconscious but breathing in the stabilized lateral position. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

#### Inhalation:

If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately. Get medical attention immediately. Caution is advised for persons performing mouth-to-nose or mouth-to-mouth resuscitation! Risk of intoxication. Place patients who are unconscious but breathing in the stabilized lateral position. Cardiopulmonary reanimation if victim is unconscious, not breathing and heart has stopped beating (no audible heartbeat, no pulse). Move to fresh air. For breathing difficulties, oxygen may be necessary.

#### Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**Product name: Sodium methylate Solution 30%**

<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Remove contact lenses if this can be easily done. Get medical attention immediately. (Cue: caustic burn of the eyes)
<b>Ingestion:</b>	Rinse mouth with water. Give copious water in small draughts. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	Pay attention to self-protection.

**4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms:** Symptoms may be delayed. The following symptoms may occur following contact: Discomfort Pain Vomiting Circulatory collapse Difficulty in breathing. cessation of breathing Following inhalation: Respiratory tract irritation. Difficulty in breathing. Following eye contact: Eye may become red, tear, and become painful. Visual disturbances including blurred vision Blindness. Following contact with skin: Burning pain and severe corrosive skin damage. corrosive effects

**Hazards:** Health injuries may be delayed. May cause respiratory irritation. Toxic by inhalation. Causes serious eye damage. In the eye, caustic liquids cause, depending on the intensity of exposure, severe irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations. There is a danger of blindness if corneas are damaged! Causes severe skin burns and eye damage. Superficial irritations and damage up to ulcerations and scarring develop on the skin. Poisoning by resorption through skin possible. Toxic if swallowed. Deaths observed. narcotic effect, sudden state of excitement, dysopia, drop in blood pressure. Ingestion may lead to blindness. Substance may be aspirated into the lungs if substance is swallowed and then vomited up, which may result in chemical pneumonia or asphyxiation Liver and kidney injuries may occur. see item 11

**4.3 Indication of immediate medical attention and special treatment needed**

**Treatment:** Continue with first aid measures. Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary. After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the noxious substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism). Antidote treatment: ethanol. Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance. Notes to physician Possible Methanol poisoning

**SECTION 5: Firefighting measures**
**5.1 Extinguishing media**

**Suitable extinguishing media:** Dry powder Dry sand.

**Unsuitable extinguishing media:** Water. foam

**Product name: Sodium methylate Solution 30%**

**5.2 Special hazards arising from the substance or mixture:**

Formation of flammable or explosive vapour/air mixtures possible. Keep away from sources of ignition - No smoking. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible. Closed container may rupture if strongly heated. In case of fire cool endangered containers with water. Hazard-determining flue gases might develop in case of fire: Carbon Dioxide. Carbon Monoxide. Upon contact with water: violent reaction!

**5.3 Advice for firefighters**

**Special fire-fighting procedures:**

Standard procedure for chemical fires. Pay attention to self-protection. Keep unauthorized personnel away. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Danger of explosion - avoid vapours to enter into cellars, drains and cavities. Suppress (knock down) gases/vapours/mists with a water spray jet. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Ensure there are sufficient retaining facilities for water used to extinguish fire.

**Special protective equipment for fire-fighters:**

As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Handle in accordance with good industrial hygiene and safety practice. For personal protection see section 8. Evacuate personnel to safe areas. Keep unauthorized personnel away. Heavier than air vapour. Ensure that spaces including floor areas are well ventilated. Avoid contact with eyes, skin, and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Shut off leaks, if possible without personal risk. Keep away from sources of ignition - No smoking.

**6.1.1 For non-emergency personnel:**

No data available.

**6.1.2 For emergency responders:**

No data available.

**6.2 Environmental Precautions:**

Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion. Do not allow entrance in sewage water, drainage systems, stretches of water, soil. Prevent further leakage or spillage if safe to do so. Issue an immediate alarm report to the company environmental protection department if the product unintentionally leaves the production area.

**6.3 Methods and material for containment and cleaning up:**

Take up mechanically or with an absorbent material. Suitable absorbents: for example: Universal binder absorbent for liquids diatomaceous earth Terraperl, sand (for damming up) Fill into marked, sealable containers. Clean contaminated surface thoroughly.

**6.4 Reference to other sections:**

Refer to section 7 - 'Instructions on safe handling'. For disposal considerations see section 13.

Product name: Sodium methylate Solution 30%

**SECTION 7: Handling and storage:**
**7.1 Precautions for safe handling**
**Technical measures (e.g. Local and general ventilation):**

Ensure suitable suction/aeration at the work place and with operational machinery. Installation of emergency shower and eye bath recommended. Please note: National regulations. Further Information ACGIH (American Conference of Governmental Industry Hygienists)

**Safe handling advice:**

Handle in accordance with good industrial hygiene and safety practice. For personal protection see section 8. Avoid contact with eyes, skin, and clothing. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Ensure that spaces including floor areas are well ventilated. Do not breathe dust/fume/gas/mist/vapors/spray.

**Contact avoidance measures:**

see Precautions for safe handling.

**7.2 Conditions for safe storage, including any incompatibilities**
**Safe storage conditions:**

Store in accordance with local/regional/national/international regulations. General rules of fire prevention should be observed. Keep in a cool, well-ventilated place. Avoid heat, sparks, open flames and other ignition sources. Avoid exposure to high temperatures or direct sunlight. Take precautionary measures against static discharges. Ensure explosion proofness. No sparking tools should be used. Keep tightly closed. Handle and open container with care. Check gasket material for suitability. Observe prohibition against storing together! Store away from incompatible materials. see section 10.

**Safe packaging materials:**

No data available.

**7.3 Specific end use(s):**

We are unaware of any specific end uses which go beyond the data reported in Section 1.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control Parameters**
**Occupational Exposure Limits**

 Suitable measuring processes are: Methanol German Research Foundation (DFG) BIA method 7810  
 OSHA 91 NIOSH 2000

Chemical name	Type	Exposure Limit Values	Source
methanol	TWA	200 ppm 266 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL 15 minutes	250 ppm 333 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
	TWA	200 ppm 260 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.



**Product name: Sodium methylate Solution 30%**
**Exposure guidelines**

Chemical name	Type	Source
methanol	Skin designation: Can be absorbed through the skin.	UK. EH40 Workplace Exposure Limits (WELs), as amended

**Biological Limit Values**

Chemical Identity	Parameters / Sampling Time	Exposure Limit Values	Source
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**DNEL-Values**

Critical component	Type	Route of Exposure	Health Warnings	Remarks
methanol	Workers	Dermal	Systemic, short-term; 20 mg/kg	Acute toxicity
	General population	Inhalation	Local, short-term; 26 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, short-term; 26 mg/m3	Acute toxicity
	General population	Dermal	Systemic, long-term; 4 mg/kg	Acute toxicity
	General population	Dermal	Systemic, short-term; 4 mg/kg	Acute toxicity
	Workers	Inhalation	Systemic, short-term; 130 mg/m3	Acute toxicity
	Workers	Inhalation	Local, short-term; 130 mg/m3	Acute toxicity
	Workers	Inhalation	Systemic, long-term; 130 mg/m3	Acute toxicity
	General population	Inhalation	Local, long-term; 26 mg/m3	Acute toxicity
	General population	Eyes	Local effects;	No hazard identified
	General population	Oral	Systemic, long-term; 4 mg/kg	Acute toxicity
	Workers	Inhalation	Local, long-term; 130 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, long-term; 26 mg/m3	Acute toxicity
	Workers	Eyes	Local effects;	No hazard identified
	Workers	Dermal	Systemic, long-term; 20 mg/kg	Acute toxicity
	General population	Oral	Systemic, short-term; 4 mg/kg	Acute toxicity

**PNEC-Values**

Critical component	Environmental compartment	PNEC-Values	Remarks
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**8.2 Exposure controls**
**Appropriate Engineering Controls:**

Ensure suitable suction/aeration at the work place and with operational machinery. Installation of emergency shower and eye bath recommended Please note: National regulations. Further Information ACGIH (American Conference of Governmental Industry Hygienists)

**Individual protection measures, such as personal protective equipment**

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**Product name: Sodium methyate Solution 30%**

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<b>Eye/face protection:</b>	close-fitting protective goggles (e.g. closed goggles) Face shield Please note: National regulations.
<b>Hand Protection:</b>	<p>Additional Information: Applies to handling for brief periods or of small amounts Material: Nitrile. Glove thickness: 0.33 mm Guideline: DIN EN 374</p> <p>Additional Information: Applies to handling for longer periods or of large amounts Material: Butyl rubber. Glove thickness: 0.7 mm Guideline: DIN EN 374</p> <p>Additional Information: The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances., Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Be aware that in daily use the durability of a protective glove can be notably shorter than the break through time measured, due to the numerous outside influences (e.g. temperature)., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., Please note: National regulations.</p>
<b>Skin and Body Protection:</b>	Wear suitable protective clothing. If necessary, full body protection suit (coverall). Select materials and equipment for physical protection depending on the concentration and volume of hazardous substances and the workplace involved. Please note: National regulations.
<b>Respiratory Protection:</b>	In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus Suitable filter: AX, code colour brown Ambient air dependent respiratory protective devices must be tested for their suitability prior to use (e.g. contact manufacturer, carry out penetration test). Note time limit for wearing respiratory protective equipment. Please note: National regulations.
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Immediately remove contaminated clothing. Wash contact areas after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product. Wash with soap and water before eating, drinking, smoking or using toilet. Implement skin protection measures according to skin protection schedule

**Product name: Sodium methyle Solution 30%**
**Environmental Controls:**

The environmental regulations on the control and monitoring of environmental exposures are to be observed. Emissions from venting and processing equipment should be checked in order to ensure that the requirements of the Environmental Protection Law are satisfied. In some cases, exhaust air scrubbers, filters or technical changes to the processing plant will be required in order to decrease emissions to acceptable values. See sections 6 and 7.

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**
**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	colorless
<b>Odor:</b>	Alcohol
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	Approximate 5 °C
<b>Boiling Point:</b>	92 °C (1,013 hPa) (DIN 51751) start of boiling
<b>Flammability:</b>	Not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	44 %(V) tested substance: Methanol
<b>Explosive limit - lower:</b>	5.5 %(V) tested substance: Methanol
<b>Flash Point:</b>	28 °C (DIN EN ISO 2719)
<b>Self Ignition Temperature:</b>	The substance or mixture is not classified as pyrophoric.
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	13 (20 g/l, 20 °C)
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	partly miscible partial decomposition by hydrolysis
<b>Solubility (other):</b>	No data available.
<b>Dissolution Rate:</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	-0.77 Measured tested substance: Methanol -0.75 tested substance: Sodium methanolate
<b>Dispersion Stability:</b>	No data available
<b>Vapor pressure:</b>	45 hPa (20 °C)
<b>Relative density:</b>	No data available.
<b>Density:</b>	Approximate 0.97 g/cm <sup>3</sup> (20 °C) (DIN 51757)
<b>Bulk density:</b>	Not applicable
<b>Relative vapor density:</b>	No data available.

**9.2 Other information**

<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing.
<b>Minimum ignition temperature:</b>	Approximate 445 °C (DIN 51794)
<b>Self-heating:</b>	Not applicable

**Product name: Sodium methyllate Solution 30%**

<b>Formation of Flammable Gases:</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Peroxides:</b>	The substance or mixture is not classified as organic peroxide.
<b>Metal Corrosion:</b>	Corrosive to metal
<b>Evaporation Rate:</b>	No data available.
<b>Other physical and chemical parameters:</b>	Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors.

#### SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Chemical Stability:</b>	No decomposition if used as directed.
<b>10.3 Possibility of hazardous reactions:</b>	Exothermic reaction with: Water, acids Oxidizing agents. Halogenated solvents Evolution of hydrogen with: various metals e.g.: aluminium, magnesium, zinc (Formation of detonating gas with atmospheric oxygen).
<b>10.4 Conditions to avoid:</b>	Protect from moisture.
<b>10.5 Incompatible Materials:</b>	Water, acids Air Oxygen Oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b>	Decomposes in contact with water. Sodium hydroxide. Methanol In contact with water or moisture: Hydrolysis

#### SECTION 11: Toxicological information

<b>General information:</b>	The abiotic hydrolysis of sodium and potassium methanolates with tissue water results in the formation of sodium and potassium ions respectively, hydroxyl ions and methanol. May cause damage to the liver and kidneys. If swallowed, risk of possible blindness.
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##### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

###### Information on likely routes of exposure

<b>Inhalation:</b>	Relevant route of exposure. Information on effects are given below.
<b>Skin Contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Eye contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Ingestion:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.

###### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	ATEmix: 139.32 mg/kg
<b>Components:</b>	
sodium methoxide	LD 50 (Rat, Female, Male) : 1,687 mg/kg
methanol	LD 50 (Rat) : 100 mg/kg

###### Dermal

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**Product name: Sodium methylate Solution 30%**


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**Product:** ATEmix: 428.57 mg/kg

**Components:**

sodium methoxide	LD 50 (Rat, Female, Male) : > 2,000 mg/kg
methanol	LD 50 (Rat) : 300 mg/kg

**Inhalation**

**Product:** ATEmix: 3 mg/l Vapour

**Components:**

sodium methoxide	No data due to skin-corrosive action, Vapour No data due to skin-corrosive action, Dusts, mists and fumes
methanol	LC 50 (Rat, 4 h): 3 mg/l Vapour Not applicable, Dusts, mists and fumes

**Repeated dose toxicity**

**Product:** No data available.

**Components:**

sodium methoxide	No data available.
methanol	No data available.

**Skin Corrosion/Irritation**

**Product:** Corrosive.;

**Components:**

sodium methoxide	(Rabbit, < 3 min): Corrosive.
methanol	(Rabbit): Not irritating , Literature

**Serious Eye Damage/Eye Irritation**

**Product:** Risk of serious damage to eyes., The product itself has not been tested.

**Components:**

sodium methoxide	(Rabbit, 24 h): Risk of serious damage to eyes.
methanol	(Rabbit): Not irritating

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

sodium methoxide	Not a skin sensitizer.
methanol	Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer. Not a respiratory sensitizer

**Carcinogenicity**

**Product:** No data available.

**Components:**

sodium methoxide	Not classified
methanol	Not classified

**Germ Cell Mutagenicity**
**In vitro**

**Product:** No data available.

**Components:**

sodium methoxide	Ames test (OECD 471): negative Ames test (OECD 471): negative gene mutation test (OECD 476): negative Micronucleus test: negative
methanol	Ames test (OECD 471): negative gene mutation test (OECD 476): negative Micronucleus test: negative

**Product name: Sodium methyle Solution 30%**
**In vivo**
**Product:** No data available.

**Components:**  
 sodium methoxide Chromosomal aberration (OECD 474) Intraperitoneal (Mouse, Female, Male): negative  
 methanol Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male): negative  
 Chromosomal aberration Intraperitoneal (Mouse, Female, Male): negative

**Reproductive toxicity**
**Product:** No data available.

**Components:**  
 sodium methoxide Not classified  
 methanol Not classified

**Specific Target Organ Toxicity - Single Exposure**
**Product:** No data available.

**Components:**  
 sodium methoxide Not classified  
 methanol Dermal Oral Inhalation - vapor: optic nerve, Central nervous system. - Category 1 Causes damage to organs.

**Specific Target Organ Toxicity - Repeated Exposure**
**Product:** No data available.

**Components:**  
 sodium methoxide Not classified  
 methanol Not classified

**Aspiration Hazard**
**Product:** No data available.

**Components:**  
 sodium methoxide Not applicable  
 methanol Not classified

**11.2 Information on other hazards**
**Other hazards**
**Product:** The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".; The abiotic hydrolysis of sodium and potassium methanlates with tissue water results in the formation of sodium and potassium ions respectively, hydroxyl ions and methanol.; A narcotic phase develops at first after the in-take of methanol in toxic quantities. In dramatic cases there are serious defects in the vision, failure of the central nervous system, laming of the respiratory functions and cardiac arrest. Danger! Possible loss of eyesight! Deaths observed. Poisoning by resorption through skin possible. Liver and kidney injuries may occur. May cause headache and dizziness. Nausea Symptoms may be delayed.;

**SECTION 12: Ecological information**
**12.1 Toxicity:**
**Acute hazards to the aquatic environment:**
**Fish**
**Product:** No data available.

**Product name: Sodium methylete Solution 30%**
**Components:**

sodium methoxide	LC 50 (Leuciscus idus melanotus, 48 h): 346 mg/l LC 50 (Sunfish, 96 h): 15,400 mg/l EC 50 (Sunfish, 96 h): 12,700 mg/l NOEC (Oryzias latipes, 200 h): 7,900 - 15,800 mg/l
methanol	LC 50 (Bluegill Sunfish, 96 h): 15,400 mg/l Literature

**Aquatic Invertebrates**
**Product:** No data available.

**Components:**

sodium methoxide	EC 50 (Daphnia magna, 24 h): > 10,000 mg/l EC 50 (Daphnia magna, 48 h): > 10,000 mg/l
methanol	EC 50 (Daphnia magna, 96 h): 18,260 mg/l Literature

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Components:**

sodium methoxide	EC 50 (Desmodesmus subspicatus (green algae), 24 h): 302.2 mg/l (DIN 38412 part 12) EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): 22,000 mg/l (OECD 201)
methanol	EC 50 (Selenastrum capricornutum (green algae), 96 h): Approximate 22,000 mg/l (OECD 201) Literature

**Toxicity to microorganisms**
**Product:** No data available.

**Components:**

sodium methoxide	EC 50 (activated sludge, mixed population, 24 h): 96.9 mg/l (DIN 38412 part 12) IC 50 (Community sewage sludge, 3 h): > 1,000 mg/l (OECD 209)
methanol	EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209) Literature

**Chronic hazards to the aquatic environment:**
**Fish**
**Product:** No data available.

**Components:**

sodium methoxide	No data available.
methanol	No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Components:**

sodium methoxide	No data available.
methanol	No data available.

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Components:**

sodium methoxide	No data available.
methanol	No data available.

**Toxicity to microorganisms**
**Product:** No data available.

**Components:**

sodium methoxide	EC 50 (activated sludge, mixed population, 24 h): 96.9 mg/l (DIN 38412 part 12) IC 50 (Community sewage sludge, 3 h): > 1,000 mg/l (OECD 209)
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**Product name: Sodium methyle Solution 30%**

methanol	EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209) Literature
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**12.2 Persistence and Degradability**
**Biodegradation**

<b>Product:</b>	No data available.
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**Components:**

sodium methoxide	The biodegradability cannot be determined for physico-chemical reasons., Readily biodegradable
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methanol	98 % (28 d, (DOC; modif. OECD screening test / OECD 301 E)) Own study The product is easily biodegradable., aerobic
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**BOD/COD Ratio**

<b>Product:</b>	No data available.
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**Components:**

sodium methoxide	No data available.
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methanol	No data available.
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**12.3 Bioaccumulative potential**
**Bioconcentration Factor (BCF)**

<b>Product:</b>	No data available.
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**Components:**

sodium methoxide	Potential to bioaccumulate is low.
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methanol	Leuciscus idus (Golden orfe), Bioconcentration Factor (BCF): < 10 (Measured) No significant bioaccumulation.
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**Partition Coefficient n-octanol / water (log Kow)**

<b>Product:</b>	Log Kow: -0.77 Measured tested substance: Methanol
	Log Kow: -0.75 tested substance: Sodium methanolate

**Components:**

sodium methoxide	Log Kow: -0.72 25 °C calculated
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methanol	Log Kow: -0.77
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**12.4 Mobility in soil:**

<b>Product</b>	No data available.
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**Components:**

sodium methoxide	soil - Log Koc: 1 (calculated) Significant bioaccumulation need not be expected.
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methanol	soil - Log Koc: 1 (calculated) Not expected to adsorb on soil.
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**12.5 Results of PBT and vPvB assessment:**

<b>Product</b>	Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
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**Components:**

sodium methoxide	Non-classified vPvB substance,
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	Non-classified PBT substance
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methanol	Non-classified vPvB substance,
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	Non-classified PBT substance
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**12.6 Other adverse effects:**
**Other hazards**
**Product:**

The properties of this product which are characteristics posing a threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification". Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.



**Product name: Sodium methylate Solution 30%**

**Additional Information:** No ecotoxicological studies are available on the mixture.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**General information:** Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

**Disposal methods:** Dispose of in accordance with local regulations.

**Contaminated Packaging:** Contaminated packages should be as empty as possible. Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

### SECTION 14: Transport information

#### 14.1 UN/ID No.

ADR	: UN 1289
RID	: UN 1289
IMDG	: UN 1289
IATA	: UN 1289

#### 14.2 UN proper shipping name

ADR	: SODIUM METHYLATE SOLUTION
RID	: SODIUM METHYLATE SOLUTION
IMDG	: SODIUM METHYLATE SOLUTION
IATA	: Sodium methylate solution

#### 14.3 Transport hazard class(es)

ADR	: 3
RID	: 3
IMDG	: 3
IATA	: 3

#### 14.4 Packing group

ADR	
Packing group	: III
Classification Code	: FC
Hazard Identification Number	: 38

**Product name: Sodium methyle Solution 30%**

 Labels : 3 (8)  
 Tunnel restriction code : (D/E)

**RID**

 Packing group : III  
 Classification Code : FC  
 Hazard Identification Number : 38  
 Labels : 3 (8)

**IMDG**

 Packing group : III  
 Labels : 3 (8)  
 EmS Code : F-E, S-C  
 Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

**IATA (Cargo aircraft only)**

 Packing instruction (cargo aircraft) : 365  
 Packing instruction (LQ) : Y342  
 Packing group : III  
 Labels : 3 (8)  
 Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

**IATA (Passenger and cargo aircraft)**

 Packing instruction (passenger aircraft) : 354  
 Packing instruction (LQ) : Y342  
 Packing group : III  
 Labels : 3 (8)  
 Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

**14.5 Environmental hazards**
**ADR**

Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None

**Product name: Sodium methylate Solution 30%**

present or none present in regulated quantities.

**EU Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

Classification	Lower-tier Requirements	Upper-tier Requirements
H2. Acute toxic	50 t	200 t
O1. Substances or mixtures with hazard statement EUH014	100 t	500 t
P5c. Flammable liquids	5,000 t	50,000 t

**National Regulations**

All national and local regulations have to be followed. It must be determined whether preventive substance-specific occupational medical examinations in accordance with national law in each case must be offered / carried out at regular intervals.

Handle in accordance with good industrial hygiene and safety practice.

Comply with restrictions according to Annex XVII of the REACH Directive (1907/2006). Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Please note Directive 92/85/EEC (Pregnant Workers Directive) and amendments. EU.

Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants

Note employment restrictions for minors.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms:**

**ADR** - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dose/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

**Notes:**

sodium methoxide	Note T	This substance may be marketed in a form which does
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**Product name: Sodium methylate Solution 30%**

		not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
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**Key literature references and sources for data:** No data available.

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Flammable liquids, Category 3	On basis of test data
Corrosive to metal, Category 1	Expert judgement
Acute toxicity, Category 3 Oral	Calculation method
Acute toxicity, Category 3 Dermal	Calculation method
Acute toxicity, Category 3 Inhalation - vapor	Calculation method
Skin corrosion, Category 1A	Expert judgement
Serious eye damage, Category 1	On basis of test data
Specific Target Organ Toxicity - Single Exposure, Category 1	On basis of test data

**Wording of the H-statements in section 2 and 3**

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H228	Flammable solid.
H251	Self-heating; may catch fire.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H370	Causes damage to organs.
EUH071	Corrosive to the respiratory tract.

**Training information:** Comply with national laws regulating employee instruction.

**Revision Information** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

**Product name: Sodium methylete Solution 30%**

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**Disclaimer:**

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

