

Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 16.05.2025

Version: 3.2

Product: **Na-Methylate sol. 25 %**

(ID no. 30036697/SDS_GEN_00/EN)

Date of print 13.10.2025

1. Identification

Product identifier

Na-Methylate sol. 25 %

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Chemical

Recommended use: Intermediate, process chemical, catalyst

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Division Monomers

Telephone: +49 621 60 42737

E-mail address: pss.monomers@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Flam. Liq. 3
Met. Corr. 1
Acute Tox. 3 (Inhalation - vapour)
Acute Tox. 3 (oral)
Acute Tox. 3 (dermal)
Skin Corr. 1B
STOT SE (Central nervous system, Optic nerve) 1

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs (Central nervous system, Optic nerve).

Precautionary Statements (Prevention):

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

Precautionary Statements (Response):

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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 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P390	Absorb spillage to prevent material damage.
P370 + P378	In case of fire: Use ... to extinguish.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.
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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Other hazardsAccording to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients**Substances**

Not applicable

MixturesChemical nature

Preparation based on: Sodium methanolate, Methanol

Hazardous ingredients (GHS)

According to UN GHS criteria

Methanol

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Content (W/W): $\geq 50\%$ - $\leq 100\%$	Flam. Liq. 2
CAS Number: 67-56-1	Acute Tox. 3 (Inhalation - vapour)
EC-Number: 200-659-6	Acute Tox. 3 (oral)
INDEX-Number: 603-001-00-X	Acute Tox. 3 (dermal)
	STOT SE (Central nervous system, Optic nerve)
	1
	H225, H301 + H311 + H331, H370
	<u>Specific concentration limit:</u>
	STOT SE 2: 3 - $< 10\%$
	STOT SE 1: $\geq 10\%$

Sodium methanolate

Content (W/W): $\geq 20\%$ - $< 50\%$	Flam. Sol. 1
CAS Number: 124-41-4	Self-heat. 1
EC-Number: 204-699-5	Acute Tox. 4 (oral)
INDEX-Number: 603-040-00-2	Skin Corr. 1A
	Eye Dam. 1
	H228, H251, H314, H302
	EUH014, EUH071

Sodium hydroxide

Content (W/W): $> 0\%$ - $< 1\%$	Met. Corr. 1
CAS Number: 1310-73-2	Skin Corr. 1A
EC-Number: 215-185-5	Eye Dam. 1
INDEX-Number: 011-002-00-6	H290, H314
	<u>Specific concentration limit:</u>
	Skin Irrit. 2: 0,5 - $< 2\%$
	Eye Irrit. 2: 0,5 - $< 2\%$
	Skin Corr. 1A: $\geq 5\%$
	Skin Corr. 1B: 2 - $< 5\%$

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

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

On contact with eyes:

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

On ingestion:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: skin corrosion, irritates the eyes and respiratory tract, blindness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

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

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

Risk of exothermic reaction.

Advice for fire-fighters

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

Further information:

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Sealed containers should be protected against heat as this results in pressure build-up.

6. 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

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Protect against moisture. Protect against heat.

Protection against fire and explosion:

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

Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Keep away from water.

Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE), Stainless steel 1.4541, Stainless steel 1.4571

Unsuitable materials for containers: Aluminium, Galvanized carbon steel (Zinc), Paper/Fibreboard
Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep under dry nitrogen. Protect against moisture. Protect against heat. Keep away from sources of ignition - No smoking.

Protect from temperatures below: 3 °C

The product crystallizes below the limit temperature.

Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

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67-56-1: Methanol

1310-73-2: Sodium hydroxide

Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

chloroprene rubber (CR) - 0.5 mm coating thickness

polyvinylchloride (PVC) - 0.7 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (f.e. EN 166) and face shield

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:

liquid

Form:

liquid

Colour:

colourless to yellowish

Odour:

of methanol

Odour threshold:

Not determined due to potential health hazard by inhalation.

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crystallization temperature:	-2 °C	
Boiling point:	85 °C (1.013 mbar)	
Flammability:	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: methanol</i>		
Lower explosion limit:	5,5 %(V)	

Upper explosion limit:	For liquids not relevant for classification and labelling.	
<i>Information on: methanol</i>		
Upper explosion limit:	36,5 %(V)	

Flash point:	29 °C	(DIN 51755)
Auto-ignition temperature:	not determined	
<i>Information on: methanol</i>		
Auto-ignition temperature:	455 °C	

Thermal decomposition:	It is not a self-decompositionable substance.	
pH value:	approx. 11	(ISO 1148)
Viscosity, kinematic:	not determined	
Viscosity, dynamic:	27 mPa.s (20 °C)	
Solubility in water:	hydrolyzes (20 °C)	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
<i>Information on: Methanol</i>		
Partitioning coefficient n-octanol/water (log Kow):	-0,77 (20 °C)	(measured)
<i>Literature data.</i>		

Vapour pressure:	approx. 46 mbar (20 °C)	
	approx. 220 mbar (50 °C)	
Relative density:	not determined	
Density:	0,944 g/cm3 (20 °C)	(ISO 2811-3)
	0,918 g/cm3 (50 °C)	(ISO 2811-3)
Relative vapour density (air):	not determined	

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

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Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:

The product liberates flammable gases in contact with water.

Corrosion to metals

Corrosive effect on: - Aluminium

Other safety characteristics

Bulk density:

not applicable

Miscibility with water:

(15 °C)

Reacts with water.

Hygroscopy:

hygroscopic

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

Formation of

Remarks:

flammable gases:

The product liberates flammable gases in contact with water.

Possibility of hazardous reactions

Exothermic reaction. Reacts with water and acids.

Conditions to avoid

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

Incompatible materials

Substances to avoid:

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

Hazardous decomposition products

Hazardous decomposition products:

Sodium hydroxide, Methanol

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

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

rat (by inhalation): 8 h (IRT)

No mortality within the stated exposition time as shown in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Methanol

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.

Information on: Sodium methanolate

Experimental/calculated data:

LD50 rat (oral): 1.687 mg/kg (OECD Guideline 401)

An aqueous solution was tested.

Information on: Methanol

Experimental/calculated data:

LD50 rat (oral): > 1187 - 2769 mg/kg (BASF-Test)

Information on: Methanol

Experimental/calculated data:

LC50 rat (by inhalation): 128 mg/l 4 h (BASF-Test)

The vapour was tested.

Information on: Methanol

Experimental/calculated data:

LD50 rabbit (dermal): 17100 mg/kg (other)

Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive. (BASF-Test)

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

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Serious eye damage/irritation rabbit: irreversible damage (BASF-Test)

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

Information on: Sodium methanolate

Assessment of irritating effects:

Corrosive! Damages skin and eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

As the substance is corrosive, conducting sensitization studies is not feasible.

Information on: Sodium methanolate

Assessment of sensitization:

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

Information on: Methanol

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

Information on: Methanol

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.

Information on: Sodium 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 fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

Not classified, due to lack of data.

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:
Not classified, due to lack of data.

*Information on: Methanol**Assessment of reproduction toxicity:**The results of animal studies gave no indication of a fertility impairing effect.*
-----Developmental toxicity

Assessment of teratogenicity:
Not classified, due to lack of data.

*Information on: Methanol**Assessment of teratogenicity:**The results of animal studies gave indication of a developmental toxic/teratogenic effects with high doses.*
-----Experiences in humans*Information on: Methanol*-----Specific target organ toxicity (single exposure)

Assessment of STOT single:
A single exposure to small quantities may have toxic effects on specific organs.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

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

*Information on: Methanol**Assessment of repeated dose toxicity:**The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.*
-----Aspiration hazard

Toxic if swallowed.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

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

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*Information on: Sodium hydroxide**Assessment of aquatic toxicity:**Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible. There is a high probability that the product is not acutely harmful to aquatic organisms.**The effect strongly depends on the pH-value. The data refers to the dissociated form of the substance.**Information on: Methanol**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.**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.**Information on: Sodium hydroxide**Toxicity to fish:**LC50 (96 h) 125 mg/l, Gambusia affinis (other, static)**The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. Literature data.**Information on: Methanol**Toxicity to fish:**LC50 (96 h) 15.400 mg/l, Lepomis macrochirus (other, Flow through.)**Information on: Sodium hydroxide**Aquatic invertebrates:**EC50 (48 h) 40,4 mg/l, Ceriodaphnia sp. (other, static)**Literature data.**Information on: Methanol**Aquatic invertebrates:**EC50 (48 h) 18.260 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)**Information on: Methanol**Aquatic plants:**EC50 (96 h) approx. 22.000 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)**Information on: Methanol**Microorganisms/Effect on activated sludge:**EC50 (3 h) > 1.000 mg/l, (OECD Guideline 209, aquatic)**EC50 (24 h) 880 mg/l, Nitrosomonas sp. (Inhibition of nitrification, aquatic)*

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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

Information on: Sodium hydroxide

Assessment biodegradation and elimination (H₂O):

Inorganic product which cannot be eliminated from water by biological purification processes.

Information on: Methanol

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Information on: Methanol

Elimination information:

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

Bioaccumulative potential

Information on: Methanol

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

Information on: Sodium hydroxide

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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 treatment methods

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Contaminated packaging:

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

14. Transport Information

Land transport

ADR

UN number or ID number: UN1289

UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN1289

UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8

Packing group: III

Environmental hazards: no

Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN1289

UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8

Packing group: III

Environmental hazards: no

Special precautions for user: None known

Transport in inland waterway vessel

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Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1289
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: EmS: F-E; S-C

Air transport

IATA/ICAO

UN number or ID number: UN 1289
UN proper shipping name: SODIUM METHYLATE SOLUTION

Transport hazard class(es): 3, 8
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
Met. Corr.	Corrosive to metals
Acute Tox.	Acute toxicity
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity — single exposure

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Flam. Sol.	Flammable solids
Self-heat.	Self-heating substances and mixtures
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs (Central nervous system, Optic nerve).
H228	Flammable solid.
H251	Self-heating: may catch fire.
H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
EUH014	Reacts violently with water.
EUH071	Corrosive to the respiratory tract.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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