

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## BYK-4509

Version: 9.0  
SDB\_CH

Revision Date: 11.12.2025

Date of last issue: 01.10.2025  
Print Date: 16.12.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : BYK-4509  
UFI : YCE2-Q0Q1-S00C-UHX9  
Product code : 000000000000127986

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

Use of the Substance/Mixture : Adhesion Promoter

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapor.

#### 2.2 Label elements

##### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

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Precautionary Statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : solution of polyester alkyl ammonium salt

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1-methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 12,5 - < 20

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- |                         |   |   |
|-------------------------|---|---|
| General advice          | : | Move out of dangerous area.<br>Show this material safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact | : | If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.       |

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

- |          |   |                           |
|----------|---|---------------------------|
| Symptoms | : | No information available. |
|----------|---|---------------------------|

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

- |           |   |                           |
|-----------|---|---------------------------|
| Treatment | : | No information available. |
|-----------|---|---------------------------|

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                                |   |   |
|--------------------------------|---|---|
| Suitable extinguishing media   | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet   |

#### 5.2 Special hazards arising from the substance or mixture

- |                                       |   |   |
|---------------------------------------|---|---|
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products         | : | Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )                       |

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### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- 

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
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Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	150 ppm 568 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		TWA	100 ppm 360 mg/m <sup>3</sup>	CH SUVA
		Further information: Harm to the unborn child is not to be expected when the OEL-value is respected		
		STEL	200 ppm 720 mg/m <sup>3</sup>	CH SUVA
		Further information: Harm to the unborn child is not to be expected when the OEL-value is respected		

#### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
1-methoxy-2-propanol	107-98-2	1-methoxypropanol-2: 221.9 micromol per litre	Immediately after exposure or after working hours	CH BAT

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		(Urine)		
		1- methoxypropanol- 2: 20 mg/l (Urine)	Immediately after exposure or after working hours	CH BAT

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Routes of exposure	Potential health effects	Value
1-methoxy-2-propanol	Workers	Inhalation	Acute local effects	553,5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	50,6 mg/kg
	Workers	Inhalation	Long-term systemic effects	369 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	18,1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	43,9 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	3,3 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
1-methoxy-2-propanol	Fresh water	10 mg/l
	Sea water	1 mg/l
	Intermittent releases	100 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	41,6 mg/kg
	Sea sediment	4,17 mg/kg
	Soil	2,47 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : butyl-rubber  
Break through time : 120 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	light yellow
Odor	:	characteristic
Odor Threshold	:	No data available
Melting point/ range	:	< 0 °C Method: derived
Initial boiling point and boiling range	:	> 120 °C Method: derived
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	45 °C Method: 48 (Abel-Pensky) DIN 51755
Autoignition temperature	:	> 200 °C Method: DIN 51794
Decomposition temperature	:	No data available
pH	:	7 (20 °C) Concentration: 10 % Method: Universal pH-value indicator
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	12 hPa (20 °C)

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Method: derived

Relative density : No data available  
Density : 1,111 g/cm<sup>3</sup> (20 °C, 1.013 hPa)  
Method: 4 (20°C oscillating U-tube)  
Relative vapor density : No data available

### 9.2 Other information

Flammability (liquids) : Sustains combustion  
Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.  
Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Remarks: No data available

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### Components:

#### **1-methoxy-2-propanol:**

Acute oral toxicity : LD50 (Rat, male and female): 4.016 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.3.  
GLP: yes

#### **Skin corrosion/irritation**

Not classified due to lack of data.

### Product:

Remarks : No data available

### Components:

#### **1-methoxy-2-propanol:**

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : No skin irritation  
GLP : yes

#### **Serious eye damage/eye irritation**

Not classified due to lack of data.

### Components:

#### **1-methoxy-2-propanol:**

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.5.  
Result : No eye irritation  
GLP : yes

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

### Product:

Remarks : No data available

### Components:

#### **1-methoxy-2-propanol:**

Test Type : Maximization Test

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Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	Directive 67/548/EEC, Annex V, B.6.
Result	:	Does not cause skin sensitization.
GLP	:	yes

### Germ cell mutagenicity

Not classified due to lack of data.

#### Product:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available

### Carcinogenicity

Not classified due to lack of data.

#### Product:

Remarks	:	No data available
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### Reproductive toxicity

Not classified due to lack of data.

#### Product:

Effects on fertility	:	Remarks: No data available
Effects on fetal development	:	Remarks: No data available

### STOT-single exposure

Not classified due to lack of data.

#### Product:

Remarks	:	No data available
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### STOT-repeated exposure

Not classified due to lack of data.

#### Product:

Remarks	:	No data available
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### Repeated dose toxicity

#### Product:

Remarks	:	No data available
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### Aspiration toxicity

Not classified due to lack of data.

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### Product:

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

#### Components:

##### 1-methoxy-2-propanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6.812 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### 1-methoxy-2-propanol:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301  
GLP: yes

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### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**1-methoxy-2-propanol:**

Partition coefficient: n-octanol/water : log Pow: 0,37 (20 °C)  
pH: 6,8  
Method: OECD Test Guideline 117  
GLP: No information available.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADN** : UN 3092  
**ADR** : UN 3092  
**RID** : UN 3092  
**IMDG** : UN 3092  
**IATA** : UN 3092

#### 14.2 UN proper shipping name

**ADN** : 1-METHOXY-2-PROPANOL, SOLUTION  
**ADR** : 1-METHOXY-2-PROPANOL, SOLUTION  
**RID** : 1-METHOXY-2-PROPANOL, SOLUTION  
**IMDG** : 1-METHOXY-2-PROPANOL, SOLUTION  
**IATA** : 1-Methoxy-2-propanol, solution

#### 14.3 Transport hazard class(es)

**ADN** : 3  
**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

#### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

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### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-D

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### 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.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
  
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High : This product does not contain

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Concern for Authorization (Article 59). substances of very high concern  
(Regulation (EC) No.  
1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Fire Hazard Class : B II: Flash point  $\geq 69.8$  °F to  $\leq 131$  °F; water soluble at 59 °F

Seveso III: Directive 2012/18/EU of the P5c FLAMMABLE LIQUIDS  
European Parliament and of the Council on the  
control of major-accident hazards involving  
dangerous substances.

Volatile organic compounds : Law on the incentive tax for volatile organic compounds  
(VOCV)  
Volatile organic compounds (VOC) content: 19,03 %

### 15.2 Chemical Safety Assessment

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## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H226 : Flammable liquid and vapor.  
H336 : May cause drowsiness or dizziness.

### Full text of other abbreviations

Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first  
list of indicative occupational exposure limit values  
CH BAT : Switzerland. List of BAT-values  
CH SUVA : Switzerland. Limit values at the work place  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
CH SUVA / TWA : Time Weighted Average  
CH SUVA / STEL : Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada);

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ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Flam. Liq. 3                      H226

#### Classification procedure:

Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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