

according to Regulation (EC) No 1907/2006

Methanol mind. 99% chemisch rein

Revision date: 22.05.2023

Product code: 21287

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

1.1. Product identifier

Methanol mind. 99% chemisch rein

REACH Registration Number:	01-2119433307-44-XXXX
CAS No:	67-56-1
Index No:	603-001-00-X
EC No:	200-659-6

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

Use of the substance/mixture

Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the sa	<u>fety data sheet</u>	
Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerou Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Car accepted)	C Day or Night Within USA and Canada:

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling methanol

Signal word: Danger

Revision No: 1,02 - Replaces version: 1,01



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Pictograms:				
Hazard statements				
H225	Highly flammable liquid and vapour.			
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.			
H370	Causes damage to organs (eyes, central nervous system).			
Precautionary statemen	ts			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P240	Ground and bond container and receiving equipment.			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P302+P352	IF ON SKIN: Wash with plenty of soap and water.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.			
P403+P233	Store in a well-ventilated place. Keep container tightly closed.			

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	CH3OH
Molecular weight:	32,04 g/mol

Hazardous components

CAS No	Chemical name	Chemical name		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
67-56-1	methanol	methanol		
	200-659-6	603-001-00-X	01-2119433307-44-XXXX	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
67-56-1	200-659-6	methanol	100 %
		0 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ‹g; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; I0	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Provide fresh air. Call a physician immediately. Notes for the doctor : Methanol

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

Irritant, Dizziness Dizziness, Anaesthetic state Agitation, Spasms Inebriation, Vomiting Headache, Impairment of vision Repeated exposure may cause skin dryness or cracking.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Highly flammable. Hazardous combustion products In case of fire may be liberated: Carbon dioxide, Carbon monoxide Vapours are heavier than air, spread along floors and form explosive mixtures with air. Beware of reignition. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.



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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep cool. Protect from sunlight.

storage temperature: +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
67-56-1	Methyl alcohol	200	260		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-56-1	Methanol	Methanol	15 mg/L	Urine	End of shift



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DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
67-56-1	methanol				
Consumer D	NEL, acute		inhalation	systemic	50 mg/m³
Worker DNE	L, long-term		inhalation	systemic	260 mg/m ³
Worker DNE	L, acute		inhalation	systemic	260 mg/m ³
Worker DNE	L, long-term		inhalation	local	260 mg/m ³
Worker DNE	L, acute		inhalation	local	260 mg/m ³
Worker DNE	L, long-term		dermal	systemic	40 mg/kg bw/day
Worker DNE	L, acute		dermal	systemic	40 mg/kg bw/day
Consumer D	NEL, long-term		inhalation	systemic	50 mg/m³
Consumer D	NEL, long-term		inhalation	local	50 mg/m³
Consumer D	NEL, acute		inhalation	local	50 mg/m³
Consumer D	NEL, long-term		dermal	systemic	8 mg/kg bw/day
Consumer D	NEL, acute		dermal	systemic	8 mg/kg bw/day
Consumer D	NEL, long-term		oral	systemic	8 mg/kg bw/day
Consumer D	NEL, acute		oral	systemic	8 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmen	tal compartment	Value	
67-56-1	methanol		
Freshwater		20,8 mg/l	
Freshwater	(intermittent releases)	1540 mg/l	
Marine water 2,08 mg/l		2,08 mg/l	
Freshwater sediment 77 mg/kg			
Marine sediment		7,7 mg/kg	
Micro-organisms in sewage treatment plants (STP)		100 mg/l	
Soil 100 mg/kg		100 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.



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Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 898 Butoject® Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 890 Vitoject® Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Take off immediately all contaminated clothing and wash it before reuse. Wear fire resistant or flame retardant clothing. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: AX

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Liquid colourless characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		-98 °C
Boiling point or initial boiling point and		64,7 °C
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		5,5 vol. %
Upper explosion limits:		44 vol. %
Flash point:		9,7 °C
Auto-ignition temperature:		420 °C
Decomposition temperature:		not determined
pH-Value:		No data available
Viscosity / kinematic:		No data available
Solubility in other solvents		
not determined		



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Partition coefficient n-octanol/water:	log Pow: -0,77			
Vapour pressure: (at 20 °C)	128 hPa			
Vapour pressure:	546,6 hPa			
(at 50 °C)				
Density:	0,792 g/cm³ No data available			
Bulk density: Relative vapour density:	No data available			
9.2. Other information				
Information with regard to physical hazard classes				
Explosive properties				
Vapours can form explosive mixtures with air.	• • • • • •			
Sustaining combustion: Self-ignition temperature	Sustaining combustion			
Solid:	not applicable			
Gas:	not applicable			
Oxidizing properties				
not determined				
Other safety characteristics	N N N N			
Evaporation rate:	No data available			
Solvent separation test: Solvent content:	No data available 100%			
Solid content:	No data available			
Sublimation point:	No data available			
Softening point:	No data available			
Pour point:	No data available			
No data available:	0,597 mPa·s			
Viscosity / dynamic: (at 20 °C)	0,597 IIIFa's			
Flow time:	No data available			
Further Information				
No data available				

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent, Nitrogen oxides (NOx), Potassium chlorate, peroxides, for example hydrogen peroxide, Nitric acid, sulphuric acid, Acid halogen, Acetic anhydride, Maleic anhydride, Reducing agent, Acid, Bromine, Chlorine, Chloroform, Fluorine, Alkali metals, Alkaline earth metal;

10.4. Conditions to avoid

Vapours can form explosive mixtures with air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Plastic articles Zinc



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10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Irritation to respiratory tract

CAS No Chemical name

CAS NU	Chemical hame					
	Exposure route	Dose		Species	Source	Method
67-56-1	methanol					
	oral	LD50 mg/kg	6000	Monkey	Amer J Ophthalmol 40: 76-83 (cited in DG	Determination of the acute toxicity of t
	dermal	ATE mg/kg	300			
	inhalation (4 h) vapour	LC50 mg/l	128,2	Rat	Study report (1980)	Study performed according to internal co
	inhalation dust/mist	ATE	0,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met. Has degreasing effect on the skin.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Causes damage to organs. (methanol) eyes, central nervous system

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Additional information on tests

No data available

Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available



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Other information

Irritation to respiratory tract Repeated exposure may cause skin dryness or cracking. Causes damage to organs. Organs affected: Liver and kidney damage eyes heart

Further information

Irritant, Dizziness, Dizziness, Anaesthetic state, Agitation, Spasms, Inebriation, Vomiting, Headache, Impairment of vision

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
67-56-1	methanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11
	Fish toxicity	NOEC mg/l	446,7	28 d	Pimephales promelas	SAR and QSAR in Environmental Research,	Calculation performed with ECOSAR
	Crustacea toxicity	NOEC	208 mg/l	21 d	Daphnia magna	OECD QSAR Toolbox Report (2013)	Toxicity of the target chemical is predi

12.2. Persistence and degradability

99 %; 30 d OECD 301D Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name				Log Pow
67-56-1	methanol				-0,77
BCF					
CAS No	Chemical name	BCE	Species	Source	

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.



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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADIVIND)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1
Classification code:	FT1
Special Provisions:	279
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	336
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1
Classification code:	FT1
Special Provisions:	279 802
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1
Special Provisions:	279
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Limited quantity:	1 L		
Excepted quantity:	E2		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1230		
14.2. UN proper shipping name:	METHANOL		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label: Special Provisions:	3+6.1 A113		
Limited quantity Passenger:	1L		
Passenger LQ:	Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:	352		
IATA-max. quantity - Passenger:	1L		
IATA-packing instructions - Cargo:	364		
IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user Warning: Combustible liquid. Toxic.			
14.7. Maritime transport in bulk according to	IMO instruments		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation specific	for the substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 40, Entry 69			
Information according to 2012/18/EU	22 Methanol (67-56-1)		
(SEVESO III):	()		
Additional information:	H2, P5c		
National regulatory information			
Employment restrictions:	Observe restrictions to en	ployment for juveniles according to the 'juve	nile
		(94/33/EC). Observe employment restriction	
		ction Directive (92/85/EEC) for expectant or	
	nursing mothers.		
Water hazard class (D):	2 - obviously hazardous to	o water	
Skin resorption/Sensitization:	Permeates easily through	outer skin and causes poisoning.	
SECTION 16: Other information			

Changes

This data sheet contains changes from the previous version in section(s): 2,11,12,15.





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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Flam. Liq: Flammable liquid Acute Tox: Acute toxicity STOT SE: Specific target organ toxicity - single exposure

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (eyes, central nervous system).
H370	Causes damage to organs.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.