

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Methyl isobutyl ketone (MIBK), GC refere**

Revision: 06.03.2025

Product code: AC18.04610

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

Methyl isobutyl ketone (MIBK), GC refere

REACH Registration Number: 01-2119473980-30-XXXX  
CAS No: 108-10-1  
Index No: 606-004-00-4  
EC No: 203-550-1

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

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

**1.3. Details of the supplier of the safety data sheet****Details of the supplier of the safety data sheet**

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

**Supplier or manufacturer details**

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+353 1 901 4670 (CHEMTREC)

**1.4. Emergency telephone number:**

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## 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  
Carc. 2; H351  
Acute Tox. 4; H332  
Eye Irrit. 2; H319  
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



## Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.

## Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground and bond container and receiving equipment.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.

## Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Sum formula: C<sub>6</sub>H<sub>12</sub>O  
Molecular weight: 100,16 g/mol

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## Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
108-10-1	4-methylpentan-2-one			100 %
	203-550-1	606-004-00-4	01-2119473980-30-XXXX	
	Flam. Liq. 2, Carc. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H351 H332 H319 H336 EUH066			

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. Limits, M-factors and ATE	
108-10-1	203-550-1	4-methylpentan-2-one	100 %
	inhalation: ATE 11 mg/l (vapours)		

## 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

## General information

No data available

## 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.

## After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

## After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant, Cough

Dyspnoea, Dizziness

Narcotic effects, Inebriation

Vomiting, Gastrointestinal complaints

Repeated exposure may cause skin dryness or cracking.

Liver and kidney damage

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

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

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**Suitable extinguishing media**Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.**Unsuitable extinguishing media**

no restriction

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

Combustible liquid.

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

Hazardous combustion products

Beware of reignition.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

**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

Consult an expert

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 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.

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**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**

- 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.

**Advice on protection against fire and explosion**

- Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**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.
- The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**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.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

- 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.
- national regulations

**Further information on storage conditions**

- Keep container tightly closed and dry.
- storage temperature: +5°C - +30°C
- Protect against: Light, Air

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

- Laboratory use Laboratory chemical

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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## Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
108-10-1	Methyl isobutyl ketone (MIBK)	20	83		TWA (8 h)	
		50	208		STEL (15 min)	

## Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-10-1	Methyl isobutyl ketone (MIBK; 4-methylpentan-2-one)	MIBK	1 mg/L	Urine	End of shift

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
108-10-1	4-methylpentan-2-one			
Worker DNEL, long-term		inhalation	systemic	83 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	208 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	83 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	208 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	11,8 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	155,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	14,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	155,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,2 mg/kg bw/day

## PNEC values

CAS No	Substance	Value
108-10-1	4-methylpentan-2-one	
Freshwater		0,6 mg/l
Freshwater (intermittent releases)		1,5 mg/l
Marine water		0,06 mg/l
Freshwater sediment		8,27 mg/kg
Marine sediment		0,83 mg/kg
Micro-organisms in sewage treatment plants (STP)		27,5 mg/l
Soil		1,3 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.

## Individual protection measures, such as personal protective equipment

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#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

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

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 898 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 240 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](http://www.kcl.de)).

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: A

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-84 °C
Boiling point or initial boiling point and boiling range:	114 °C
Flammability:	not applicable
Lower explosion limits:	1,2 vol. %
Upper explosion limits:	8 vol. %
Flash point:	14 °C
Auto-ignition temperature:	460 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	neutral
Viscosity / kinematic:	No data available
Water solubility: (at 20 °C)	14,1 g/l

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## Solubility in other solvents

No data available

## Dissolution rate:

No data available

## Partition coefficient n-octanol/water:

log Pow: 1,9

## Dispersion stability:

No data available

## Vapour pressure:

20 hPa

(at 20 °C)

## Vapour pressure:

No data available

## Density:

0,8 g/cm<sup>3</sup>

## Relative density:

No data available

## Bulk density:

No data available

## Relative vapour density:

not determined

## Particle characteristics:

No data available

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

Vapours can form explosive mixtures with air.

## Sustained combustibility:

Sustained combustibility

## Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

## Oxidizing properties

No data available

**Other safety characteristics**

## Evaporation rate:

not determined

## Solvent separation test:

No data available

## Solvent content:

100%

## Solid content:

not determined

## Sublimation point:

No data available

## Softening point:

No data available

## Pour point:

No data available

## No data available:

## Viscosity / dynamic:

0,59 mPa·s

(at 20 °C)

## Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Vapours can form explosive mixtures with air.

**10.2. Chemical stability**

Protect against: Light, Air

**10.3. Possibility of hazardous reactions**

Oxidising agent

Reducing agent

Base

**10.4. Conditions to avoid**

Heat



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Light

Air

**10.5. Incompatible materials**

plastic

Rubber articles

Copper

**10.6. Hazardous decomposition products**

Peroxides

**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**

No data available

**Acute toxicity**

Harmful if inhaled.

Irritation to respiratory tract

Pulmonary oedema

Pneumonia

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

Resorption (dermal)

Resorption (by inhalation)

Resorption (dermal)

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-10-1	4-methylpentan-2-one				
	inhalation vapour	ATE 11 mg/l			

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Repeated exposure may cause skin dryness or cracking.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (4-methylpentan-2-one)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

**STOT-single exposure**

May cause drowsiness or dizziness. (4-methylpentan-2-one)

**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.

Observe risk of aspiration if vomiting occurs.

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**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

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

**Other information**

No data available

**Further information**

Irritant, Cough

Dyspnoea, Dizziness

Narcotic effects, Inebriation

Vomiting, Gastrointestinal complaints

Repeated exposure may cause skin dryness or cracking.

Liver and kidney damage

**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
108-10-1	4-methylpentan-2-one					
	Acute fish toxicity	LC50 > 179 mg/l	96 h	Danio rerio	Study report (2010)	OECD Guideline 203
	Acute crustacea toxicity	EC50 > 200 mg/l	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202
	Crustacea toxicity	NOEC 78 mg/l	21 d	Daphnia magna	Grey literature (1988)	other: "Vorläufigen Testverfahrensvorsch

**12.2. Persistence and degradability**

83 %; 28 d; aerob

OECD 301F

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
108-10-1	4-methylpentan-2-one	1,9

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

Do not empty into drains.

**Further information**

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.

Do not allow to enter into surface water or drains.

Do not mix with other wastes.

Send to a physico-chemical treatment facility under observation of official regulations.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 1245
<b>14.2. UN proper shipping name:</b>	METHYL ISOBUTYL KETONE
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 1245
<b>14.2. UN proper shipping name:</b>	METHYL ISOBUTYL KETONE
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 1245
<b>14.2. UN proper shipping name:</b>	METHYL ISOBUTYL KETONE
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L

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Excepted quantity: E2  
EmS: F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1245  
**14.2. UN proper shipping name:** METHYL ISOBUTYL KETONE  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
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.

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 9,12.

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**Abbreviations and acronyms**

Flam. Liq. 2: Flammable liquids, hazard category 2  
Acute Tox. 4: Acute toxicity, hazard category 4  
Eye Irrit. 2: Eye irritation, hazard category 2  
Carc. 2: Carcinogenicity, hazard category 2  
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3  
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%

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
EUH066	Repeated exposure may cause skin dryness or cracking.

**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. Provide appropriate information, instructions and training to users