

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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Version: 1.2

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## Mabanol Bremsenreiniger

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Bremsenreiniger

Other means of identification:

Mabanol Brake Cleaner

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

No data available

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark



**GHS09**  
Environment

Signal word: Danger

#### hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

#### hazard statements for health hazards

H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

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### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

### Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statements Response

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.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

### Precautionary statements Storage

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

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards

#### Other adverse effects:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Additional information:

Labelling for contents according to regulation (EC) No. 648/2004: > 30% aliphatic hydrocarbons

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-49-0 EC No.: 921-024-6 REACH No.: 01-2119475514-35	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3, Skin Irrit. 2 H225-H304-H315-H336-H411	50 - ≤ 100 Vol-%
CAS No.: 124-38-9 EC No.: 204-696-9	<b>carbon dioxide</b> Press. Gas (Liq.) H280	3 - ≤ 5 Vol-%
CAS No.: 110-54-3 EC No.: 203-777-6	<b>n-hexane</b> Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, Repr. 2, STOT RE 2, STOT SE 3, Skin Irrit. 2 <b>Danger</b> H225-H304-H315-H336-H361f-H373-H411	1 - ≤ 3 Vol-%

Full text of H- and EUH-phrases: see section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Following inhalation:

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### In case of skin contact:

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing. And wash it before reuse. Get medical advice/attention.

##### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion:

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

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

Headache. Dizziness. Nausea. Causes skin irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.

##### Unsuitable extinguishing media:

Water. Full water jet.

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

Flammable. Vapours can form explosive mixtures with air.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### 5.4. Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

##### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

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

##### For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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### 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

#### Protective measures

#### Advices on safe handling:

Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Fire prevent measures:

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advices 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, drink or smoke. Avoid contact with skin, eyes and clothes.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on storage assembly:

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

**Storage class:** 2B - Aerosol dispensers and lighters

#### Further information on storage conditions:

Protect against: Frost. Protect against direct sunlight.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,000 mg/m <sup>3</sup> )
TRGS 900 (DE)	carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,100 mg/m <sup>3</sup> ) ② 10,000 ppm (18,200 mg/m <sup>3</sup> )
TRGS 900 (DE)	n-hexane CAS No.: 110-54-3	① 50 ppm (180 mg/m <sup>3</sup> ) ② 400 ppm (1,440 mg/m <sup>3</sup> )
IOELV (EU)	n-hexane CAS No.: 110-54-3	① 20 ppm (72 mg/m <sup>3</sup> )

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### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	n-hexane CAS No.: 110-54-3	5 mg/L	① 2,5-Hexandion + 4,5-Dihydroxy-2-hexanon, Nach Hydrolyse: ② Urin ③ Expositionsende bzw. Schichtende

### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Wear eye protection/face protection.

##### Skin 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.

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

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Aerosol

Colour: colourless

Odour: not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	88 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	-12 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 200 °C			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.673 g/cm <sup>3</sup>	20 °C	DIN 51757	
Bulk density	<i>not determined</i>			

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parameter		at °C	Method	Remark
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	< 7 mm <sup>2</sup> /s	40 °C		

### 9.2. Other information

Density: Data apply to the technically active substance.  
pressure: 5 bar (20°C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable. Ignition hazard.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. aldehydes. carbon black.  
In case of fire: Gases/vapours, toxic.

### Further information

Do not mix with other chemicals.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycl ics, <5% n-hexane	<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >23.3 mg/l 4 h (Rat)
110-54-3	n-hexane	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >31.86 mg/l 4 h (Rat)

#### Acute oral toxicity:

The classification criteria for this hazard class are not met by definition.

#### Acute dermal toxicity:

The classification criteria for this hazard class are not met by definition.

#### Acute inhalation toxicity:

The classification criteria for this hazard class are not met by definition.

#### Skin corrosion/irritation:

Causes skin irritation.

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### Serious eye damage/irritation:

The classification criteria for this hazard class are not met by definition.

### Respiratory or skin sensitisation:

The classification criteria for this hazard class are not met by definition.

### Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

No indications of human germ cell mutagenicity exist.

### Carcinogenicity:

The classification criteria for this hazard class are not met by definition.

No indication of human carcinogenicity.

### Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

### STOT-single exposure:

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (CAS 64742-49-0); n-Hexane)

### STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

### Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

### Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	<b>LC<sub>50</sub>:</b> >1 - 10 mg/l 4 d (Pimephales promelas (fa thead minnow)) <b>ErC<sub>50</sub>:</b> >10 - 100 mg/l 3 d (Pseudokirchneriella subcapitata) <b>EC<sub>50</sub>:</b> >1 - 10 mg/l 2 d (Daphnia magna (Big water flea))

### Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	not determined	Readily biodegradable (according to OECD criteria).

### Additional information:

The product has not been tested. Readily biodegradable (according to OECD criteria). Fast photochemical oxidation in the air.

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OC</sub>	Bioconcentration factor (BCF)
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	3.4	
110-54-3	n-hexane	3.9	

### Bioconcentration factor (BCF):

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

### 12.4. Mobility in soil

The product floats on water surface. Moderate adsorption in soil and sediment.

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### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
124-38-9	carbon dioxide	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
110-54-3	n-hexane	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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\*: Evidence for disposal must be provided.

#### Waste code packaging:





15 01 04	Metallic packaging
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### Waste treatment options

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	AEROSOLS	AEROSOLS
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
No data available			



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.5. Environmental hazards

		 MARINE POLLUTANT	
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### 14.6. Special precautions for user

<b>Special provisions:</b> 190, 327, 344, 625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities:</b> <b>Hazard identification number (Kemler No.):</b> <b>Classification code:</b> 5F <b>tunnel restriction code:</b> (D) <b>Remark:</b> Warning: Flammable gases	<b>Special provisions:</b> 190, 327, 344, 625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities:</b> <b>Classification code:</b> 5F <b>Remark:</b> Warning: Flammable gases	<b>Special provisions:</b> 63, 190, 277, 327, 344, 959 <b>Limited quantity (LQ):</b> 1000 mL <b>Excepted Quantities:</b> <b>EmS-No.:</b> F-D; S-U <b>Remark:</b> Warning: Flammable gases.	<b>Special provisions:</b> A145, A167, A802 <b>Limited quantity (LQ):</b> 30kg G <b>Excepted Quantities:</b> <b>Remark:</b> Warning: Flammable gases
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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

VOC: EU/CH 95, 7386

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC  
Regulation (EC) No. 648/2004 (Detergents regulation)

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

22 JArbSchG.

##### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### 15.3. Additional information

94/69/EC (21. ATP) Benzene < 0,1% Classification and labeling as carcinogenic is not necessary.

## SECTION 16: Other information

### 16.1. Indication of changes

1.1.	Product identifier
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## Mabanol Bremsenreiniger

### 16.2. Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols ( <i>Aerosol 1</i> )	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)

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### Hazard statements

H411	Toxic to aquatic life with long lasting effects.
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### 16.6. Training advice

No data available

### 16.7. Additional 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.

\* Data changed compared with the previous version