

# SAFETY DATA SHEET

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

**Revision date:** 12 Jul 2021

**Print date:** 22 Jul 2021

**Version:** 2.0

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## Care/release spray

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

#### 1.1 Product identifier

**Trade name/designation:**

Care/release spray

**Other means of identification:**

UFI: XJ82-D1U5-J00J-MK8A

**Article No.:**

12015

**Additional information:**

The product is a spray aerosol.

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

**Use of the substance/mixture:**

dental application.

For professional use only.

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

**Manufacturer/Supplier:**

**Mälzer Dental GmbH & Co. KG**

Schlesierweg 27

31515 Wunstorf

GERMANY

**Telephone:** +49 (0) 5033 963099-0

**Telefax:** +49 (0) 5033 963099-99

**E-mail:** info@maelzer-dental.de

**Website:** <https://www.maelzer-dental.de>

**E-mail (competent person):** info@maelzer-dental.de

#### 1.4 Emergency phone number

24h: +49 (0) 551 19240

### 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.	Calculation
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Calculation
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	Calculation

#### 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

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### Hazard components for labelling:

Hydrocarbons, C6-7

#### 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.

#### Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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### Supplemental hazard information: -

#### 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.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

#### Precautionary statements - Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER/doctor if you feel unwell.

#### Precautionary statements - Storage

P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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### Special rules on packaging:

Labelling for packages ≤ 125 ml:

Hazard pictograms: GHS02, GHS07, GHS09

Signal word: Danger

Hazard components for labelling: Contains Hydrocarbons, C6-7.

Safety information: Extremely flammable aerosol. Pressurised container: May burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

## 2.3 Other hazards

### Adverse physicochemical effects:

In use, may form flammable/explosive vapour-air mixture.

### Adverse human health effects and symptoms:

May cause eye irritation. May cause respiratory irritation.

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Description:

Mixture of Active agent and propellant

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### Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 92128-66-0 EC No.: 295-763-1 REACH No.: 01-2119475514-35	<b>Hydrocarbons, C6-7</b> Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3, Skin Irrit. 2     <b>Danger</b> H225-H304-H315-H336-H411	50 - ≤ 75 weight-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	<b>Propane</b> Flam. Gas 1, Press. Gas   <b>Danger</b> H220	10 - ≤ 25 weight-%
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	<b>butane</b> Flam. Gas 1, Press. Gas   <b>Danger</b> H220	10 - ≤ 25 weight-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	<b>isobutane</b> Flam. Gas 1, Press. Gas   <b>Danger</b> H220	≤ 10 weight-%

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

#### In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. In case of skin irritation, consult a physician.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Causes skin irritation. May cause drowsiness or dizziness. May cause eye irritation. May cause respiratory irritation. If swallowed: Observe risk of aspiration if vomiting occurs.

### 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:

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet.

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

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

#### Hazardous combustion products:

In case of fire may be liberated: carbon oxides (CO<sub>x</sub>).

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### 5.3 Advice for firefighters

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

### 5.4 Additional information

Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Beware of reignition. 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:

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Avoid contact with eyes and skin. Do not breathe gas/vapour/aerosol. Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

#### 6.1.2 For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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

##### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

##### For cleaning up:

Clean floors and contaminated objects with: Water with tenside additive

### 6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

### 6.5 Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Provide adequate ventilation as well as local exhaustion at critical locations. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not breathe gas/vapour/aerosol. Avoid contact with eyes and skin. Wear personal protection equipment (refer to section 8).

##### Fire prevent measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical equipment. Take precautionary measures against static discharges.

##### Environmental precautions:

Discharge into the environment must be avoided.

##### Advices on general occupational hygiene

Avoid contact with eyes and skin. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight.

#### Requirements for storage rooms and vessels:

Material, solvent-resistant. Keep/Store only in original container.

#### Hints on storage assembly:

Keep away from combustible material. Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

#### Recommendation:

dental application.

Observe instructions for use.

## SECTION 8: Exposure controls / Personal protection

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limit values

Limit value type (country)	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
WEL (GB)	butane CAS No.: 106-97-8	① 600 ppm (1,450 mg/m <sup>3</sup> ) ② 750 ppm (1,810 mg/m <sup>3</sup> )

#### 8.1.2 Biological limit values

No data available.

#### 8.1.3 DNEL-/PNEC-values

No data available.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Technical ventilation of workplace / Provide adequate ventilation.

#### 8.2.2 Personal protection equipment



#### Eye/face protection:

Eye glasses with side protection (EN 166).

#### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material  $\geq 0,4$  mm

Suitable material: IIR (Butyl rubber)

Thickness of the glove material  $\geq 0,7$  mm

Breakthrough time:  $\geq 480$  min

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. 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. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommendation: Draw up and observe skin protection programme.

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### Respiratory protection:

Usually no personal respiratory protection necessary. Provide adequate ventilation. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: AX

### Other protection measures:

Wear anti-static footwear and clothing

### 8.2.3 Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:** Aerosol

**Colour:** colourless

**Odour:** like hydrocarbons

### Safety relevant basic data

Parameter		at	Method	Remark
pH	not applicable			
Melting point	not applicable			
Freezing point	not applicable			
Initial boiling point and boiling range	not applicable			
Decomposition temperature	not determined			
Flash point	not applicable			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	0.8 – 10.9 Vol-%			
Vapour pressure	830 kPa	20 °C		
Vapour density	not determined			
Density	0.657 g/ml	20 °C		
Bulk density	not applicable			
Water solubility	partially soluble			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not applicable			
Kinematic viscosity	not applicable			
VOC content (EU):	604.4 g/L			
Ignition temperature	> 200 °C			

### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Extremely flammable aerosol.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Vapours can form explosive mixtures with air. Violent reaction with: Oxidising agent, strong

### 10.4 Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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### 10.5 Incompatible materials

Oxidising agent

### 10.6 Hazardous decomposition products

In case of fire may be liberated: carbon oxides (COx).

### Further information

No data available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
74-98-6	Propane	<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >20 mg/L 4 h (Rat)

#### Acute oral toxicity:

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

Hazards identification if swallowed: Depression of central nervous system.

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Causes skin irritation.

#### Serious eye damage/irritation:

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

May cause eye irritation.

#### Respiratory or skin sensitisation:

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

#### Germ cell mutagenicity:

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

#### Carcinogenicity:

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:

Vapours may cause drowsiness and dizziness.

Gas/vapour: Induces narcotic effect. May cause respiratory irritation.

#### 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.

#### Additional information:

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

CAS No.	Substance name	Toxicological information
92128-66-0	Hydrocarbons, C6-7	<b>EC<sub>50</sub>:</b> 3 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) <b>NOEC:</b> 0.17 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))

#### Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

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### Assessment/classification:

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

### 12.2 Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
92128-66-0	Hydrocarbons, C6-7	Yes, rapidly	

### Biodegradation:

No data available.

### 12.3 Bioaccumulative potential

#### Accumulation / Evaluation:

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### 13.1.1 Product/Packaging disposal

Waste codes/waste designations according to EWC

#### 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
15 01 10 *	Packaging containing residues of or contaminated by dangerous substances

\*: Evidence for disposal must be provided.

### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

#### Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal.

### 13.2 Additional information

Caution! Container under pressure. Do not pierce or burn, even after use. Keep cool. Protect from sunlight. Waste for disposal is to be classified and labelled.

## 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>			
1950	1950	1950	1950
<b>14.2 UN proper shipping name</b>			
AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable	AEROSOLS, Flammable



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
<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.			
<b>14.5 Environmental hazards</b>			
		 MARINE POLLUTANT	-
<b>14.6 Special precautions for user</b>			
<b>Special provisions:</b> 190, 327, 625, 344 <b>Limited Quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> not determined <b>Hazard identification number (KemlerNo.):</b> <b>Classification code:</b> 1F <b>Tunnel restriction code:</b> (D) <b>Remark:</b> -	<b>Special provisions:</b> 190, 327, 625, 344 <b>Limited Quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> not determined <b>Classification code:</b> 1F <b>Remark:</b> -	<b>Special provisions:</b> 63, 190, 277, 327, 344, 381, 959 <b>Limited Quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> not determined <b>EmS-No.:</b> F-D,S-U <b>Remark:</b> -	<b>Special provisions:</b> A145, A167, A802 <b>Limited Quantity (LQ):</b> not determined <b>Excepted Quantities (EQ):</b> not determined <b>Remark:</b> -

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not determined

### Additional information:

Transport as "Limited Quantity" according to chapter 3.4 ADR/RID.

## SECTION 15: Regulatory information

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

#### 15.1.1 EU legislation

##### Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). VOC content (EU): 92 % (604,4 g/L)

#### 15.1.2 National regulations

No data available.

### 15.2 Chemical Safety Assessment

No data available.

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### SECTION 16: Other information

#### 16.1 Indication of changes

Changes executed in version 2.0:

Section 2: classification/Label elements

Section 3: Composition/Information on Ingredients

Section 8: Exposure Controls/Personal Protection

Section 14: Transport Information (non-mandatory)

Section 15: Water hazard class (DE)

General revision of all sections

#### 16.2 Abbreviations and acronyms

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

ATE = acute toxicity estimate

AVV = Abfallverzeichnis-Verordnung

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

BGI = Berufsgenossenschaftliche Informationen

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LGK = Lagerklasse

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Content

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Content

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

TRGS = Technical Rules for Hazardous Substances

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

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### 16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörsch Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

### 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.	Calculation
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Calculation
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	Calculation

### 16.5 Relevant H- and EUH-phrases

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

No data available.

### 16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.