

Trade name: BladeCool 2.0

Version: 3 / DE

Date revised: 14.10.2024

Substance number: R-GTA103

Replaces Version: 2 / DE

Print date: 10.06.2025

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

### **1.1. Product identifier**

BladeCool 2.0

#### **Registration no.**

UFI

2U80-90UX-K001-YRSY

#### **Substance / product identification**

PR-No.

GTA103

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

#### **Use of the substance/preparation**

Cleaners

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

#### **Address/Manufacturer**

Albert Kerbl GmbH

Felizenzell 9

84428 Buchbach

Information provided by / telephone

Albert Kerbl GmbH Tel.: 0049-(0)8086-933-302

E-mail address of person responsible for this SDS

sdb-team@kerbl.com

### **1.4. Distributed by:**

Shoof International Ltd

New Zealand: 224 Laurent Road, Cambridge 3493.

Emergency contact: 0800 POISON (0800 764 766)

Australia: 1 International Square, Tullamarine, VIC 3043

Emergency contact: 13 11 26

## **SECTION 2: Hazards identification**

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Aerosol 1 H222

H229

Eye Irrit. 2 H319

STOT SE 3 H336

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



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**Signal word**

Danger

**Hazard statements**

H222

Extremely flammable aerosol.

H229

Pressurized container: may burst if heated.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102

Keep out of reach of children.

P210

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

P251

Do not pierce or burn, even after use.

P271

Use only outdoors or in a well-ventilated area.

P405

Store locked up.

P410+P412

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

P501

Dispose of contents/container to a hazardous or special waste collection point (problem waste collection point), in accordance with local, regional, national and/or international regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains

Propan-2-ol; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, &lt;5% n-hexane

**2.3. Other hazards**

In case of insufficient ventilation and / or through use, formation of explosive / highly flammable vapour/air mixtures possible.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients****Kohlenwasserstoffe, C6-C7, iso-Alkane, cyclische, <5% n-Hexan**

CAS No.

64742-49-0

EINECS no.

926-605-8

Registration no.

01-2119486291-36

Concentration

&gt;= 2,5

&lt;

10 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 2

H411

Asp. Tox. 1

H304

Flam. Liq. 2

H225

STOT SE 3

H336

EUH066

**Further ingredients**

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**Butane**

CAS No.	106-97-8
EINECS no.	203-448-7
Registration no.	01-2119474691-32
Concentration	>= 50 %
Advice: [3]	
Classification (Regulation (EC) No. 1272/2008)	
Flam. Gas 1	H220
Press. Gas	H280

Additional remarks:

CLP

Regulation (EC) No 1272/2008, Annex VI, Note C, U

DSD

Directive 67/548/EEC, Annex I, Note C

**Propane**

CAS No.	74-98-6
EINECS no.	200-827-9
Registration no.	01-2119486944-21
Concentration	>= 25 < 50 %
Advice: [3]	
Classification (Regulation (EC) No. 1272/2008)	
Flam. Gas 1	H220
Press. Gas	H280

Additional remarks:

CLP

Regulation (EC) No 1272/2008, Annex VI, Note U

**Propan-2-ol**

CAS No.	67-63-0
EINECS no.	200-661-7
Registration no.	01-2119457558-25
Concentration	>= 1 < 10 %
Advice: [3]	
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336

**Note**

[3] Substance with occupational exposure limits

**Other information**

&gt;= 30% aliphatic hydrocarbons.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. Summon a doctor immediately.

**After skin contact**

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Take off contaminated clothing. Wash contaminated clothing before reuse. After contact with skin, wash immediately with plenty of water. Wash skin with plenty of soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately. Do not induce vomiting - aspiration hazard.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide, Foam, Dry powder

**Non suitable extinguishing media**

Full water jet

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

Flammable aerosol. CAUTION: Aerosol cans can explode. May form explosive gas-air mixtures. In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

**Other information**

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothing. Use personal protective clothing.

**6.2. Environmental precautions**

Do not allow uncontrolled release of product into the environment. Explosion hazard.

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not breathe gas/fumes/vapour/spray. Do not pierce or burn the container, even after use.

#### **Advice on protection against fire and explosion**

Do not spray against a flame or on a glowing object. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep out of reach of persons not familiar with the operation or the subject. Storage rooms must be properly ventilated. Keep container in a cool, well-ventilated place. Protect from heat. Protect against direct sunlight.

#### **Hints on storage assembly**

Do not store together with: Oxidising agents, Pyrophoric substances, self-heating hazardous substances, Do not store together with foodstuffs. Do not store together with animal feedstocks.

#### **Storage classes**

Storage class according to TRGS 510      2B                      Aerosol dispensers

#### **Further information on storage conditions**

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

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

Aerosol

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limit values**

##### **Propan-2-ol**

List	TRGS 900		
Type	AGW		
Value	500	mg/m <sup>3</sup>	200 ppm(V)
Maximum limit value: 2(II) Pregnancy group: Y; Status: 07.06.2018; Remarks: DFG			

##### **Butane**

List	TRGS 900		
Type	AGW		
Value	2400	mg/m <sup>3</sup>	1000 ppm(V)
Maximum limit value: 4(II) Status: 07.06.2018; Remarks: DFG			

##### **Propane**

List	TRGS 900		
Type	AGW		
Value	1800	mg/m <sup>3</sup>	1000 ppm(V)
Maximum limit value: 4(II) Status: 07.06.2018; Remarks: DFG			

#### **Biological limit values**

##### **Propan-2-ol**

List	BGW (TRGS 903)
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Value	25	mg/l
Parameter	acetone	
Testing material	Whole blood (B)	
Test date	End of exposure or end of shift (b)	
Source	TRGS 903	

**Propan-2-ol**

List	BGW (TRGS 903)	
Value	25	mg/l
Parameter	acetone	
Testing material	Urine (U)	
Test date	End of exposure or end of shift (b)	
Source	TRGS 903	

**Other information**

There are not known any further control parameters.

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Propan-2-ol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Professional	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	500	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Professional	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	888	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	319	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	26	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	89	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)****Propan-2-ol**

Type of value	PNEC
Type	Water (intermittent release)

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Concentration	140,9	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Freshwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	28	mg/kg/d

## 8.2. Exposure controls

### General protective and hygiene measures

Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. At work do not eat, drink, smoke or take drugs. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

### Respiratory protection

Normally not required.

### Hand protection

Chemical resistant gloves

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Hand protection must comply with EN 374.

Appropriate Material	nitrile		
Material thickness	0,4	mm	
Breakthrough time	>= 240	min	

### Eye protection

Eye protection must comply with EN 166. Safety goggles

### Body protection

antistatic boots; light protective clothing, anti-static

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	liquid	
<b>Colour</b>	colourless	
<b>Odour</b>	Alcohol	
<b>Melting point</b>		
Remarks	not determined	
<b>Freezing point</b>		
Remarks	not determined	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	< -20	°C
<b>Flammability</b>		
Not applicable		
<b>Upper and lower explosive limits</b>		

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Lower explosion limit	1,5	%(V)
Upper explosion limit	10,9	%(V)

**Flash point**

Value	<	-20	°C
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**Auto-ignition temperature**

Value	>	350	°C
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**Decomposition temperature**

Remarks	not determined
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**pH value**

Remarks	Not relevant
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**Viscosity**

Remarks	not determined
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**Solubility(ies)**

Remarks	not determined
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**Partition coefficient n-octanol/water (log value)**

Reference substance	Propan-2-ol
log Pow	0,05
Reference substance	Butane
log Pow	1,09
Reference substance	Propane
log Pow	1,09

**Vapour pressure**

Remarks	not determined
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**Density and/or relative density**

Remarks	not determined
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**Relative vapour density**

Value	0,58		g/cm <sup>3</sup>
Temperature	20	°C	

**9.2. Other information****Odour threshold**

Remarks	not determined
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**Evaporation rate (ether = 1) :**

Remarks	not determined
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**Solubility in water**

Remarks	virtually insoluble
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**Auto-ignition temperature**

Remarks	Not applicable
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**Explosive properties**

evaluation	not determined
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**Oxidising properties**

Remarks	not determined
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**Other information**

None known
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**SECTION 10: Stability and reactivity****10.1. Reactivity**



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Extremely flammable aerosol. Container is under pressure: may burst when heated.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

Vapours can form an explosive mixture with air. Keep away from: Flames and sparks. Hot surfaces.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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

**Acute oral toxicity (Components)****Propan-2-ol**

Species	Rats (male/female)	
LD50	5840	mg/kg

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Propan-2-ol**

Species	rabbit	
LD50	13900	mg/kg

**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****Butane**

Species	mouse	
LC50	1237	mg/l

**Propane**

Species	mouse	
LC50	1237	mg/l

**Propan-2-ol**

Species	Rats (male/female)	
LC50	> 10000	ppm(V)
Duration of exposure	6 h	

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

**Sensitization**

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

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**Subacute, subchronic, chronic toxicity**

Remarks May cause drowsiness and dizziness.

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**Remarks The classification criteria are met.  
evaluation May cause drowsiness or dizziness.**Repeated exposure**

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

**Specific Target Organ Toxicity (STOT) (Components)****propan-2-ol**

Remarks May cause drowsiness and dizziness.

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

No information available

**Other information**

There is no data available on the product apart from the information given in this subsection.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

May cause long lasting harmful effects to aquatic life.

**Fish toxicity (Components)****Propan-2-ol**

Species	Fish		
LC50		10000	mg/l
Duration of exposure		96	h

**Butane**

Species	Fish		
LC50		49,9	mg/l
Duration of exposure		96	h

**Propane**

Species	Fish		
LC50		49,9	mg/l
Duration of exposure		96	h

**Daphnia toxicity (Components)**

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**Propan-2-ol**

Species	Daphnia pulex		
LC50	> 10000		mg/l
Duration of exposure	24	h	

**Algae toxicity (Components)****Propan-2-ol**

Species	Scenedesmus subspicatus		
ErC50	> 100		mg/l
Duration of exposure	72	h	

**Butane**

Species	Algae		
ErC50	19,37		mg/l
Duration of exposure	96	h	

**Propane**

Species	Algae		
ErC50	19,37		mg/l
Duration of exposure	96	h	

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability**

Reference substance	Propan-2-ol		
Value	95		%
Duration of test	21	d	
Remarks	The product is readily biodegradable according to OECD criteria.		
Reference substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane		
Value	98		%
Duration of test	28	d	
Remarks	The product is readily biodegradable according to OECD criteria.		

**Biodegradability (Components)****Butane**

Value	100		%
Duration of test	385,5	h	
Method	Biodegradation test, predates, OECD test		

**Propane**

Value	100		%
Duration of test	385,5	h	
Method	Biodegradation test, predates, OECD test		

**Propan-2-ol**

Value	53		%
Duration of test	5	d	
Method	EU Method C.5		

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Reference substance	Propan-2-ol		
log Pow	0,05		
Reference substance	Butane		
log Pow	1,09		
Reference substance	Propane		

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log Pow 1,09

**Octanol/water partition coefficient (log Pow) (Components)****Propan-2-ol**

log Pow 1,09

**12.4. Mobility in soil****General information**

not determined

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

Mixture does not meet PBT or vPvB criteria.

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

not determined

**General information / ecology**

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Do not allow to enter drains.

Do not allow to enter waters.

Do not discharge into the subsoil/soil.

Dispose of waste according to applicable legislation.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

EWC waste code 16 05 04\* gases in pressure containers (including halons) containing dangerous substances

**Disposal recommendations for packaging**

Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2	2.1	2.1
Label			
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	D		

### Information for all modes of transport

#### 14.6. Special precautions for user

See Sections 6 to 8

### Other information

#### 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

#### Major-accident categories acc. 2012/18/EU

Category P3a FLAMMABLE AEROSOLS

#### Water Hazard Class (Germany)

Water Hazard Class WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

#### VOC

VOC (CH) 99,4 % 576,52 g/l

VOC (EU) 99,6 %

#### Other regulations, restrictions and prohibition regulations

To be noted:

Regulation (EC) No. 648/2004 (detergents)

Observe employment restrictions for young people.

To be noted:

850/2004/EC

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79/117/EEC  
689/2008/EC  
2008/47/EC  
Aerosol guideline (75/324/EWG)

## 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

The classification was carried out according to the calculation method of Regulation (EC) No. 1272/2008 (CLP Regulation).

The classification is based on the specifications of the pre-supplier/manufacturer.

Eye Irrit. 2; H319

Transmission principle "Aerosol".

STOT SE 3; H336

Transmission principle "Aerosol".

### Hazard statements listed in Chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurized container: may burst if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.