

Trade name: Marking spray Top Marker blue

Version: 4 / GB

Date revised: 12.10.2022

Substance number: R-20123

Replaces Version: 3 / GB

Print date: 12.10.2022

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

### **1.1. Product identifier**

Marking spray Top Marker blue

#### **Registration no.**

UFI PNQS-515E-E00M-Y4YK

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

PR-No. 20123, 20149, 20158

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

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

Paint for marking animals

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

#### **Address/Manufacturer**

Albert Kerbl GmbH  
 Felizenzell 9  
 84428 Buchbach  
 Telephone no. +49 8086 933-100  
 Fax no. +49 8086 933-500  
 Information provided by / telephone Albert Kerbl GmbH Tel.: 0049-(0)8086-933-104 Email: [bm@kerbl.com](mailto:bm@kerbl.com)  
 E-mail address of person responsible for this SDS [info@kerbl.com](mailto:info@kerbl.com)

### **1.4. Emergency telephone number**

Joint poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia c/o HELIOS Klinikum Erfurt Nordhäuser Strasse 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17  
 E-Mail: [ggiz@ggiz-erfurt.de](mailto:ggiz@ggiz-erfurt.de) - Internet: [www.ggiz-erfurt.de](http://www.ggiz-erfurt.de)

For England (NHS 111) call: 111  
 For Scotland (NHS24) call: 111  
 For Wales (NHS Direct) call: 111  
 When it's less urgent than: 999  
 For Northern Ireland call: GP Out-of-Hours ([www.gpoutofhours.hscni.net](http://www.gpoutofhours.hscni.net))

## **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
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**



Can Agri Rydziński Spółka komandytowa  
 Małopole ul. Przemysłowa 11, 05-252 Dąbrówka  
 REGON 146499609 NIP 1251619714  
 KRS 0000447544 BDO 000050135



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

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H319	Causes serious eye irritation.
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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3. Other hazards

Organic solvent vapours released by the product may cause drowsiness and dizziness. In high doses, the vapours cause headaches and symptoms of poisoning.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

##### Propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Concentration	>=	10	<	20	%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2			H225	
	Eye Irrit. 2			H319	
	STOT SE 3			H336	

##### C.I. Basic Violet 3

CAS No.	548-62-9				
EINECS no.	208-953-6				
Concentration	>=	0,25	<	1	%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4			H302	
	Eye Dam. 1			H318	
	Carc. 2			H351	
	Aquatic Acute 1			H400	
	Aquatic Chronic 1			H410	

#### Further ingredients

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**Ethanol**

CAS No. 64-17-5  
 EINECS no. 200-578-6  
 Registration no. 01-2119457610-43-XXXX  
 Concentration >= 50 %  
 Advice: [3]  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 2 H225

**Butane**

CAS No. 106-97-8  
 EINECS no. 203-448-7  
 Concentration >= 10 < 25 %  
 [3]  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Gas 1 H220  
 Press. Gas

## 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  
 Concentration >= 1 < 10 %  
 [3]  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Gas 1 H220  
 Press. Gas

## Additional remarks:

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

**Note**

[3] Substance with occupational exposure limits

**Other information**

Propellant mixture of light hydrocarbons, e.g. propane, butane, isobutane; The substance ethanol, 2-propanol is an organic solvent. Complete text of hazard statements in chapter 16

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

If medical advice is needed, have the packaging or label ready. In case of accident or if you feel unwell, seek medical advice immediately. Burn: Rinse thoroughly with water until pain stops. Remove clothing that does not stick to the skin and seek medical advice/transport to hospital. If possible, continue flushing until medical help arrives.

**After inhalation**

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

**After skin contact**

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing. If you feel unwell, consult a doctor.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Seek medical

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advice immediately. Remove contact lenses. Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### **After ingestion .**

Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. If you feel unwell, consult a doctor.

#### **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**

Irritant effects: The product contains substances which are locally irritating by skin/eye contact or inhalation. Contact with locally irritating substances may cause the contact area to be more sensitive to the absorption of harmful e.g. allergenic substances.

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

##### **Hints for the physician / hazards**

No further relevant information available.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Dry powder, Foam, Water spray jet

##### **Non suitable extinguishing media**

Full water jet

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

Flammable aerosol. CAUTION: Aerosol cans can explode. In case of combustion evolution of dangerous gases possible.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

##### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

### **SECTION 6: Accidental release measures**

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

Keep away sources of ignition. Take action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Avoid contact with skin, eyes and clothing.

#### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

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

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

#### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

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

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## 7.1. Precautions for safe handling

### Advice on safe handling

Personal protective equipment: see chapter 8. Use only in well-ventilated areas. Do not eat, drink or smoke when using. Wash hands before breaks and at the end of work. Hold eye wash fountain available. There must be access to running water. Protect from heat and direct sunlight. Do not pierce or burn, even after use.

### Advice on protection against fire and explosion

Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps).

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

### Recommended storage temperature

Value  $\geq$  10  $<$  50 °C

### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

### Storage classes

Storage class according to TRGS 510 2B Aerosol dispensers

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Biological limit values

##### Propan-2-ol

List	BGW (TRGS 903)
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

Contains no substances with occupational exposure limit values.

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### Ethanol

Type of value	Derived No Effect Level (DNEL)
Reference group	Consumer
Duration of exposure	Long term
Route of exposure	dermal
Mode of action	Systemic effects
Concentration	206 mg/kg

Type of value	Derived No Effect Level (DNEL)
Reference group	Professional
Duration of exposure	Long term

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Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 1900 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Professional  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 343 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Professional  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 950 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 87 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 950 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 114 mg/m<sup>3</sup>

**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

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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)**

**Ethanol**

Type of value	PNEC	
Type	Soil	
Concentration	0,63	mg/kg

Type of value	PNEC	
Type	Saltwater	
Concentration	0,79	mg/l

Type of value	PNEC	
Type	Freshwater	
Concentration	096	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	2,75	mg/l

**8.2. Exposure controls**

**General protective and hygiene measures**

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Nitrile gloves.

Protective gloves

Appropriate Material nitrile

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.

Gloves should be selected according to the use and duration of use at the workplace.

Hand protection must comply with EN 374.

**Eye protection**



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Safety glasses with side protection shield; Eye protection must comply with EN 166.

**Body protection**

Clothing as usual in the chemical industry. Protective shoes

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Aerosol	
<b>Colour</b>	blue	
<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>		
Remarks	not determined	
<b>Flammability</b>		
Remarks	not determined	
<b>Upper and lower explosive limits</b>		
Remarks	not determined	
<b>Flash point</b>		
Value	-60	°C
<b>Ignition temperature</b>		
Remarks	not determined	
<b>Decomposition temperature</b>		
Remarks	not determined	
<b>pH value</b>		
Remarks	not determined	
<b>Viscosity</b>		
Remarks	not determined	
<b>Solubility(ies)</b>		
Remarks	not determined	
<b>Partition coefficient n-octanol/water (log value)</b>		
Remarks	not determined	
<b>Vapour pressure</b>		
Remarks	not determined	
<b>Density and/or relative density</b>		
Remarks	not determined	
<b>Relative vapour density</b>		
Remarks	not determined	
<b>9.2. Other information</b>		
<b>Odour threshold</b>		
Remarks	not determined	
<b>Evaporation rate (ether = 1) :</b>		
Remarks	not determined	
<b>Solubility in water</b>		

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Remarks	immiscible
<b>Explosive properties</b>	
evaluation	not determined
<b>Oxidising properties</b>	
Remarks	not determined
<b>Other information</b>	
None known	

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Heating can cause fire or explosion.

### **10.2. Chemical stability**

No decomposition if used as directed.

### **10.3. Possibility of hazardous reactions**

No dangerous reactions when stored and handled according to instructions.

### **10.4. Conditions to avoid**

Sun exposure, high temperatures, ignition sources.

### **10.5. Incompatible materials**

None known

### **10.6. Hazardous decomposition products**

Irritant gases/vapours

## **SECTION 11: Toxicological information**

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

#### **Acute oral toxicity**

Remarks not determined

#### **Acute oral toxicity (Components)**

##### **Ethanol**

Species	rat				
LD50	11870	to	15010	mg/kg	

##### **C.I. Basic Violet 3**

LD50	420	mg/kg
Source	GESTIS-Stoffdatenbank	

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

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

#### **Acute dermal toxicity**

Remarks not determined

#### **Acute dermal toxicity (Components)**

##### **Ethanol**

Species	rabbit	
LD50	17100	mg/kg

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

Species	rabbit	
LD50	12800	mg/kg

#### **Acute inhalational toxicity**

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Remarks not determined

**Acute inhalative toxicity (Components)****Ethanol**

Species	rat				
LC50	115,9	to	133,8	mg/l	
Duration of exposure	4	h			

**Butane**

Species	mouse				
LC50	1237			mg/l	

**Propan-2-ol**

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

**Propane**

Species	mouse				
LC50	1237			mg/l	

**Skin corrosion/irritation**

Remarks	Slight irritation of the skin cannot be excluded due to the product composition.
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**Serious eye damage/irritation**

Remarks	Eye contact with the product may lead to irritation.
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**Sensitization**

Remarks	not determined
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**Subacute, subchronic, chronic toxicity**

Remarks	not determined
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**Mutagenicity**

Remarks	not determined
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**Reproductive toxicity**

Remarks	not determined
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**Carcinogenicity**

Remarks	not determined
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**Carcinogenicity (Components)****C.I. Basic Violet 3**

evaluation	Suspected of causing cancer.
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**Specific Target Organ Toxicity (STOT)**

Remarks	Prolonged or repeated inhalation of the vapours may cause damage to the central nervous system.
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**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**

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation may lead to irritation of the respiratory tract.

**Other information**

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

**SECTION 12: Ecological information**

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## 12.1. Toxicity

### General information

not determined

### Fish toxicity (Components)

#### Ethanol

Species	Fish				
LC50		14,2	to	15,4	g/l
Duration of exposure		96	h		

#### Butane

Species	Fish				
LC50		24,11	to	147,54	mg/l

#### Propan-2-ol

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

### Daphnia toxicity (Components)

#### Ethanol

Species	Daphnia magna				
EC50		12340			mg/l
Duration of exposure		48	h		

#### C.I. Basic Violet 3

Species	Daphnia magna				
EC50		0,24	to	0,5	mg/l
Duration of exposure		48	h		

#### Propan-2-ol

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

### Algae toxicity (Components)

#### Ethanol

Species	Algae				
EC50		275			mg/l
Duration of exposure		72	h		

#### C.I. Basic Violet 3

Species	Algae				
EC50		0,025	to	0,8	mg/l
Duration of exposure		72	h		

#### Butane

Species	Algae				
EC50		7,71	to	16,5	mg/l

## 12.2. Persistence and degradability

### General information

not determined

### Biodegradability (Components)

#### Ethanol

Value	97			%
Duration of test	28	d		
Method	OECD Guideline 301 B			

#### C.I. Basic Violet 3

Value	3,6			%
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Duration of test	28	d	
Method	OECD Guideline 301 F		
<b>Butane</b>			
Value	100		%
Duration of test	385,5	h	
Method	Biodegradation test, predates, OECD test		
<b>Propan-2-ol</b>			
Value	53		%
Duration of test	5	d	
Method	EU Method C.5		
<b>Propane</b>			
Value	100		%
Duration of test	385,5	h	
Method	Biodegradation test, predates, OECD test		

### 12.3. Bioaccumulative potential

#### General information

The product is not bioaccumulating.

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

Remarks not determined

### 12.4. Mobility in soil

#### General information

not determined

### 12.5. Results of PBT and vPvB assessment

#### General information

not determined

### 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

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

Must not be disposed of together with household waste.

Hand over only completely emptied aerosol cans for valuable substance recovery!

Do not allow to enter drains.

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste incineration plant.

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste

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disposal company.

**Disposal recommendations for packaging**

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

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

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D		
14.1. UN 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	11		
Transport category	2		
14.5. Environmental hazards		no	

**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**

**15.2. Chemical safety assessment.**

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

**SECTION 16: Other information**

**Hazard statements listed in Chapter 3**

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.

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H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 4

Acute toxicity, Category 4

Aquatic Acute 1

Hazardous to the aquatic environment, acute, Category 1

Aquatic Chronic 1

Hazardous to the aquatic environment, chronic, Category 1

Carc. 2

Carcinogenicity, Category 2

Eye Dam. 1

Serious eye damage, 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.

