

**PROTECTON LOCK DEFROSTER**

Creation date	14th August 2019	Version	2.0
Revision date	04th May 2023		

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

- 1.1. Product identifier** PROTECTON LOCK DEFROSTER  
Substance / mixture mixture  
UFI SKJP-VVPK-R00V-A91R
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Lock defroster.  
**Main intended use**  
PC-TEC-2 Antifreeze and de-icing products  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name FILSON s.r.o.  
Address Slévačská 902, Praha 9, 19800  
Czech Republic  
Identification number (CRN) 47549947  
Phone +420 267710620  
E-mail msds@filson.cz  
Web address www.filson.cz  
**Competent person responsible for the safety data sheet**  
Name FILSON s.r.o.  
E-mail msds@filson.cz
- 1.4. Emergency telephone number**  
European emergency number: 112

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225  
Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

Causes serious eye irritation.

- 2.2. Label elements**

**Hazard pictogram****Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Precautionary statements**

P102 Keep out of reach of children.

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

P501 Dispose of contents/container to by disposing in a hazardous waste receptacle.

**Requirements for child-resistant fastenings and tactile warning of danger**

Container must carry a tactile warning of danger.

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-0031	ethanol	<65	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C > 50 %	
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28-0004	ethanediol	<10	Acute Tox. 4, H302	1
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43-xxxx	butanone	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	isopropanol	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

**Notes**

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

**If swallowed**

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

Not expected.

**If on skin**

Not expected.

**If in eyes**

Causes serious eye irritation.

**If swallowed**

Irritation, nausea.

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

Symptomatic treatment.

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

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

**Unsuitable extinguishing media**

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
50 ml	dropper	

Storage class 3 - Flammable liquids  
 Storage temperature min 0 °C, max 25 °C

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
ethanediol (CAS: 107-21-1)	OEL 8 hours	52 mg/m <sup>3</sup>	Skin
	OEL 8 hours	20 ppm	
	OEL 15 minutes	104 mg/m <sup>3</sup>	
	OEL 15 minutes	40 ppm	
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m <sup>3</sup>	
	OEL 8 hours	200 ppm	
	OEL 15 minutes	900 mg/m <sup>3</sup>	
	OEL 15 minutes	300 ppm	

#### DNEL

ethanediol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	35 mg/m <sup>3</sup>	Chronic effects local		
Workers	Dermal	106 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	7 mg/m <sup>3</sup>	Chronic effects local		
Consumers	Dermal	53 mg/kg bw/day	Chronic effects systemic		

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ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1900 mg/m <sup>3</sup>	Acute effects local		
Workers	Dermal	343 mg/kg	Chronic effects systemic		
Workers	Inhalation	950 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Inhalation	950 mg/m <sup>3</sup>	Acute effects local		
Consumers	Dermal	206 mg/kg bw	Chronic effects systemic		
Consumers	Inhalation	114 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Oral	87 mg/kg bw	Chronic effects systemic		

isopropanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	500 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	888 mg/kg bw	Chronic effects systemic		
Consumers	Inhalation	89 mg/kg	Chronic effects systemic		
Consumers	Dermal	319 mg/kg bw	Chronic effects systemic		
Consumers	Oral	26 mg/kg bw	Chronic effects systemic		

**PNEC**

ethanediol

Route of exposure	Value	Value determination	Source
Freshwater environment	10 mg/l		
Marine water	1 mg/l		
Water (intermittent release)	10 mg/l		
Freshwater sediment	37 mg/kg		
Soil (agricultural)	1.53 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	199.5 mg/l		

ethanol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.96 mg/l		
Marine water	0.79 mg/l		
Water (intermittent release)	2.75 mg/l		
Freshwater sediment	3.6 mg/l		
Sea sediments	2.9 mg/l		
Soil (agricultural)	0.63 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	580 mg/l		
Food chain	720 mg/kg		

isopropanol

Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	2251 mg/l		
Freshwater sediment	552 mg/kg		

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isopropanol

Route of exposure	Value	Value determination	Source
Sea sediments	552 mg/kg		
Soil (agricultural)	28 mg/kg		
Oral	160 mg/kg		
Freshwater environment	140.9 mg/l		
Marine water	140.9 mg/l		
Water (intermittent release)	140.9 mg/l		

### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	blue
Odour	containing alcohol
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>78 °C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	data not available
Flash point	<23 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	6-8 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0,9-0,901 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

Evaporation rate	data not available
Appearance	liquid

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

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### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

butanone

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral		3460 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	
Dermal	LD50	>10 ml/kg bw		Rabbit	

ethanediol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	4700 mg/kg		Rat ( <i>Rattus norvegicus</i> )	
Oral	LD50	5500 mg/kg		Mouse	
Dermal	LD50	9530 mg/kg		Rat ( <i>Rattus norvegicus</i> )	
Oral	LDL0	100 ml		Human	
Inhalation	LC50	10876 mg/m <sup>3</sup>		Rat ( <i>Rattus norvegicus</i> )	

ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	10470 mg/kg bw			
Dermal	LD50	15800 mg/kg bw			
Inhalation	LC50	30000 mg/m <sup>3</sup>			

isopropanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	>2000 mg/kg		Rat	
Dermal	LD50	>2000 mg/kg		Rabbit	
Inhalation (vapor)	LC50	>5 mg/kg	4 hours	Rat	
Oral	LD50	>2000 mg/kg		Rat	
Inhalation (vapor)	LC50	>10000 ppm	6 hours	Rat	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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**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.

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

butanone

Parameter	Value	Exposure time	Species	Environment
LC50	2993 mg/kg	96 hours	Fish (Pimephales promelas)	
EC50	308 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC50	1972 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

ethanediol

Parameter	Value	Exposure time	Species	Environment
	18500 mg/l	96 hours	Fish (Salmo gairdneri)	
LD50	41000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
LD50	18500 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC50	46300 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC50	>100 mg/l	72 hours	Algae	

ethanol

Parameter	Value	Exposure time	Species	Environment
LC50	11200 mg/l of air	24 hours	Fish (Oncorhynchus mykiss)	
EC50	5012 mg/l	48 hours	Invertebrates (Ceriodaphnia dubia)	
EC50	857 mg/l	48 hours	Invertebrates (Artemia salina)	
EC50	275 mg/l	72 hours	Algae (Chlorella vulgaris)	

isopropanol

Parameter	Value	Exposure time	Species	Environment
LC50	>100 mg/l	96 hours	Fish	
EC50	>100 mg/l	48 hours	Daphnia	



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Parameter	Value	Exposure time	Species	Environment
IC50	>100 mg/l	72 hours	Algae	
LD50	>100 mg/l	48 hours	Fish (Leuciscus idus melanotus)	
LD50	>100 mg/l	48 hours	Fish (Pimephales promelas)	
EC50	>100 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC50	>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)	

### 12.2. Persistence and degradability

#### Biodegradability

ethanediol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	>70 %	5 days		Easily biodegradable

isopropanol

Parameter	Method	Value	Exposure time	Environment	Result
		53 %	5 days		

not available

### 12.3. Bioaccumulative potential

isopropanol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	<1.25				

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

16 01 14 antifreeze fluids containing hazardous substances \*

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**Packaging waste type code**

15 01 02 plastic packaging

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number or ID number**

UN 1170

**14.2. UN proper shipping name**

ETHANOL

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

II - substances presenting medium danger

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

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

not relevant

**Additional information**

Hazard identification No.

**33**

UN number

**1170**

Classification code

F1

Safety signs

3

**Air transport - ICAO/IATA**

Packaging instructions passenger 353

Cargo packaging instructions 364

**Marine transport - IMDG**

EmS (emergency plan) F-E, S-D

MFAG 305

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

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H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Guidelines for safe handling used in the safety data sheet**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P501 Dispose of contents/container to by disposing in a hazardous waste receptacle.

**A list of additional standard phrases used in the safety data sheet**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity  
Eye Irrit. Eye irritation  
Flam. Liq. Flammable liquid  
STOT SE Specific target organ toxicity - single exposure

**Training guidelines**



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 14 August 2019. Changes were made in sections 2, 12, 13, 15 and 16.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.