

**INOX CLEANER**

Creation date	15th December 2022	Version	4.0
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier** INOX CLEANER  
Substance / mixture mixture  
Number 1 35001  
UFI UFV1-QDKP-700R-DW25
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Metal surface cleaner.  
**Mixture uses advised against**  
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (CRN) 25018205  
VAT Reg No CZ25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.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.

Aerosol 1, H222, H229  
Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Skin Sens. 1B, H317  
Eye Irrit. 2, H319  
STOT SE 3, H336  
Aquatic Chronic 2, H411

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

**Most serious adverse physico-chemical effects**

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

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

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

- 2.2. Label elements**

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

Danger

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**Hazardous substances**

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
 hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics  
 2-butoxyethanol  
 d-limonene

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Supplemental information**

>=30 % aliphatic hydrocarbons, perfumes, Limonene

**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
EC: 921-024-6 Registration number: 01-2119475514-35	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	10-<25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	10-<25	Flam. Liq. 2, H225	
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	10-<25	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 919-857-5 Registration number: 01-2119463258-33	hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics	10-<25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	10-<25	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 111-76-2 EC: 203-905-0 Registration number: 01-2119475108-36	2-butoxyethanol	10-<25	Acute Tox. 4, H302+H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	1
CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	butane (containing < 0,1 % butadiene (203 -450-8))	1,0-<2,5	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 5989-27-5 EC: 227-813-5 Registration number: 01-2119529223-47	d-limonene	0,25-<1,0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	0,1-<1,0	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 inhaled**

In case of unconsciousness place patient stably in side position for transportation.

**If on skin**

Immediately wash with water and soap and rinse thoroughly.

**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. Provide medical treatment, specialized if possible.

**If swallowed**

DO NOT INDUCE VOMITING! Provide medical treatment.

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

May cause drowsiness or dizziness.

**If on skin**

May cause an allergic skin reaction.

**If in eyes**

Causes serious eye irritation.

**If swallowed**

not available

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

not available

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

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

**Unsuitable extinguishing media**

Water - full jet.

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

not available

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing.

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

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work.

**6.2. Environmental precautions**

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

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

Provide sufficient ventilation. Do not flush with water or aqueous cleansing agents.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

**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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**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
2-butoxyethanol (CAS: 111-76-2)	OEL 8 hours	98 mg/m <sup>3</sup>	Skin
	OEL 8 hours	20 ppm	
	OEL 15 minutes	246 mg/m <sup>3</sup>	
	OEL 15 minutes	50 ppm	

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**DNEL**

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	699 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	699 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	773 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	608 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	2035 mg/m <sup>3</sup>	Systemic chronic effects		

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2 % aromatics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	871 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	185 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	125 mg/kg bw/day	Systemic chronic effects		

**PNEC**

d-limonene

Route of exposure	Value	Value determination	Source
Freshwater environment	14 µg/l		
Microorganisms in wastewater treatment plants	0.0018 mg/l		
Seawater	1.4 µg/l		

**8.2. Exposure controls**

Do not eat, drink and smoke during work. Remove contaminated clothes immediately. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not inhale aerosols. Prevent contact with skin and eyes.

**Eye/face protection**

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material: ≥ 0.5 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Filter A2/P2.

**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	gas
Colour	yellow
Odour	after solvents

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Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-44,5 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	0,6 %
upper	15,0 %
Flash point	-97 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-polar/aprotic
Kinematic viscosity	data not available
Solubility in water	almost insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	3200 hPa at 20 °C
Density and/or relative density	
Density	0,697 g/cm <sup>3</sup> at 20 °C
Form	aerosol dispenser: spray aerosol
data not available	

**9.2. Other information**

Evaporation rate	data not available
Ignition temperature	>200 °C
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Content of organic solvents (VOC)	95,2 %
Solid content (dry matter)	4,8 % volume
Max. VOC content in the product in its ready to use condition	663,3 g/l
Product is not selfigniting.	

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

not available

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

not available

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Unknown.

**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**

Harmful if swallowed.

2-butoxyethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	300 mg/kg		Rabbit	
Oral	LD <sub>50</sub>	470 mg/kg		Rat	

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2-butoxyethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	2000 mg/kg		Rabbit	

d-limonene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>5000 mg/kg bw		Rabbit	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>5840 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>2920 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>25 mg/l	4 hour	Rat	

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	3160 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>5000 mg/l	4 hour	Rat	

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**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**

May cause drowsiness or dizziness.

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

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**11.2. Information on 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.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Toxic to aquatic life with long lasting effects.

2-butoxyethanol

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	1490 mg/l	96 hour	Fishes (Lepomis macrochirus)	

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## d-limonene

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	35 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	320 µg/l		Algae	

## hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

Parameter	Value	Exposure time	Species	Environment
LL 50	11.4 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EL 50	3 mg/l	48 hour	Invertebrates (Daphnia magna)	
EL 50	30-100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

## hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2 % aromatics

Parameter	Value	Exposure time	Species	Environment
LL 50	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EL0	1000 mg/l	48 hour	Invertebrates (Daphnia magna)	
EL 50	>1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

**Chronic toxicity**

## hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

Parameter	Value	Exposure time	Species	Environment
LOEC	0.32 mg/l	21 day	Invertebrates (Daphnia magna)	
NOEC	0.17 mg/l	21 day	Invertebrates (Daphnia magna)	
NOELR	3 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

## hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2 % aromatics

Parameter	Value	Exposure time	Species	Environment
NOELR	100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

**12.2. Persistence and degradability**

The mixture is biodegradable.

**12.3. Bioaccumulative potential**

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**



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Ecotoxicological effects: Remark: Toxic for fish

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

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.

**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 03 05 organic wastes containing hazardous substances \*

**Packaging waste type code**

15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers \*

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

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

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

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

2 Gases

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

Yes

**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**

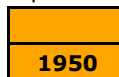
Stowage Code: SW1 Protected from sources of heat. SW2 Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1+hazardous for the environment



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**Road transport - ADR**

Excepted quantities	E0
Transport category	2
Tunnel restriction code	(D)

**Railway transport - RID****Marine transport - IMDG**

Hazard initiator	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, DIPENTENE
EmS (emergency plan)	F-D, S-U
Marine Pollutant	Yes

**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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

**15.2. Chemical safety assessment**

not available

**More information**

Directive 2012/18/EU of the European parliament and of the Council - ANNEX I - Hazard categories: P3a FLAMMABLE AEROSOLS. E2 Hazardous to the Aquatic Environment in Category Chronic 2.  
Qualifying quantity (tonnes) of dangerous substances for the application - of lower-tier requirements: 150 (net).  
Qualifying quantity (tonnes) of dangerous substances for the application of - upper-tier requirements: 500 (net).

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

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

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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403 Store in a well-ventilated place.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**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  
DNEL Derived no-effect level  
EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
EL<sub>50</sub> Effective Loading for 50% of the tested organisms  
EmS Emergency plan  
ES Identification code for each substance listed in EINECS  
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  
ICAO International Civil Aviation Organization  
IMDG International Maritime Dangerous Goods  
INCI International Nomenclature of Cosmetic Ingredients  
ISO International Organization for Standardization  
IUPAC International Union of Pure and Applied Chemistry  
LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population  
LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population  
LL<sub>50</sub> Lethal Loading for 50% of tested organisms  
log K<sub>ow</sub> Octanol-water partition coefficient  
MARPOL International Convention for the Prevention of Pollution from Ships  
NOEC No observed effect concentration  
NOEL No observed effect level  
NOELR No Observed Effect Loading Rate  
OEL Occupational Exposure Limits  
PBT Persistent, Bioaccumulative and Toxic  
PNEC Predicted no-effect concentration  
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

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Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

**Training guidelines**

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 4.0 replaces the SDS version from 28 May 2020. Changes were made in sections 2, 11, 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.