

**UPHOLSTERY CLEANER**

Creation date	06th September 2024	Version	4.0
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Substance / mixture	UPHOLSTERY CLEANER
Number	mixture
UFI	1 35470 (1L); 1 35255 (5L)
	7RD8-6176-E81A-189P

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Mixture's intended use**

Cleaning agent. For professional use only.

**Main intended use**

PC-CLN-17.3	Interior cleaning and care products (excludes air care products, and products for upholstery or leather)
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**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	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.

Eye Irrit. 2, H319

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

Causes serious eye irritation.

**2.2. Label elements****Hazard pictogram****Signal word**

Warning

**Hazard statements**

H319	Causes serious eye irritation.
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**Precautionary statements**

P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

**Supplemental information**

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EUH208

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

### 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.

**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
CAS: 97862-59-4 EC: 931-296-8 Registration number: 01-2119488533-30	Cocamidopropyl Betaine	1-<5	Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 4 % < C ≤ 10 %	
CAS: 7320-34-5 EC: 230-785-7 Registration number: 01-2119489369-18	Tetrasodium Pyrophosphate	1-<5	Eye Irrit. 2, H319	
EC: 932-106-6	Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)	1-<5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 3 % < C < 10 %	
Index: 613-167-00-5 CAS: 55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310+H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 Specific concentration limit: Eye Irrit. 2, H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A, H317: C ≥ 0.0015 % Skin Irrit. 2, H315: 0.06 % ≤ C < 0.6 % Skin Corr. 1C, H314: C ≥ 0.6 % Eye Dam. 1, H318: C ≥ 0.6 %	1

#### Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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

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**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**

Terminate the exposure immediately; move the affected person to fresh air.

**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.

**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 - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

**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. 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**

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.

**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 contact with skin and eyes. 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.

**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.

Content	Packaging type	Material of package
5 l	jerry can	
1 l	bottle	

Storage temperature

min 5 °C, max 25 °C

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

not available

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

**DNEL**

Cocamidopropyl Betaine			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	44 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	13.04 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Dermal	7.5 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	7.5 mg/kg bw/day	Chronic effects systemic

Tetrasodium Pyrophosphate			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	44.08 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Inhalation	10.87 mg/m <sup>3</sup>	Chronic effects systemic

**PNEC**

Cocamidopropyl Betaine	
Route of exposure	Value
Freshwater environment	0.013 mg/l
Marine water	0.001 mg/l
Microorganisms in sewage treatment	3000 mg/l
Freshwater sediment	11.1 mg/kg of dry substance of sediment
Sea sediments	11.1 mg/kg of dry substance of sediment
Soil (agricultural)	0.85 mg/kg of dry substance of soil

Tetrasodium Pyrophosphate	
Route of exposure	Value
Freshwater environment	0.05 mg/l
Marine water	0.005 mg/l
Water (intermittent release)	0.5 mg/l
Microorganisms in sewage treatment	50 mg/l

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**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**

It is not needed.

**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	green
Odour	according to fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	non-inflammable
Lower and upper explosion limit	data not available
Flash point	>60 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	9.5-10.5 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
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	1.01 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid
data not available	

**9.2. Other information**

Evaporation rate	non-applicable
Explosive properties	The product does not have explosive properties.

**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.

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### 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 the available data, the criteria for classification of the mixture are not met.

UPHOLSTERY CLEANER							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		24879 mg/kg				Calculation of value
Dermal	ATE		7392000 mg/kg				Calculation of value
Inhalation (vapor)	ATE		40000 mg/l				Calculation of value

Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>		<2000 mg/kg		Rat		
Dermal	LD <sub>50</sub>		>2000 mg/kg		Rabbit		

Cocamidopropyl Betaine							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	OECD 401	2335 mg/kg		Rat		
Dermal	LD <sub>50</sub>	in vivo	>620 mg/kg		Rat		

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>		64-66 mg/kg		Rat		
Dermal	LD <sub>50</sub>		141 mg/kg		Rat		
Dermal	LD <sub>50</sub>		92.4 mg/kg		Rabbit		
Inhalation (dust/mist)	LC <sub>50</sub>		0.169 mg/l	4 hours	Rat		

Tetrasodium Pyrophosphate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat		
Dermal	LD <sub>50</sub>		>2000 mg/kg		Rabbit		
Inhalation (aerosols)	LC <sub>50</sub>		>1.1 mg/l				

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### Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Tetrasodium Pyrophosphate			
Route of exposure	Result	Exposure time	Species
Skin	Not irritating		

### Serious eye damage/irritation

Causes serious eye irritation.

Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)			
Route of exposure	Result	Exposure time	Species
Eye	Serious eye damage		

Tetrasodium Pyrophosphate			
Route of exposure	Result	Exposure time	Species
Eye	Irritating		

### Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Tetrasodium Pyrophosphate				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing			

### Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)							
Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex
Oral	NOAEL	50 mg/kg bw/day	2 years	Heart	Organ weight, Reduced body weight	Rat	

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### Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex
Oral	NOAEL	50 mg/kg bw/day	2 years	Liver	Organ weight, Reduced body weight	Rat	
Oral	NOAEL	50 mg/kg bw/day	2 years	Kidney	Organ weight, Reduced body weight	Rat	

### Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture 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

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

#### Acute toxicity

### Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		<1 mg/l		Fish (Cyprinus carpio)	
LC <sub>50</sub>		<1 mg/l		Daphnia (Daphnia magna)	
LC <sub>50</sub>		0.1-1.0 mg/l		Algae (Chlorella)	

### Cocamidopropyl Betaine

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	OECD 203	1.1 mg/l	96 hours	Fish (Pimephales promelas)	
EC <sub>50</sub>	OECD 202	1.9 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC <sub>50</sub>		2.4 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		0.19 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC <sub>50</sub>		0.16 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC <sub>50</sub>		0.0052 mg/l	48 hours	Algae (Skeletonema costatum)	



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### Tetrasodium Pyrophosphate

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC <sub>50</sub>		>100 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC <sub>50</sub>		>100 mg/l	72 hours	Algae (Selenastrum capricornutum)	

### Chronic toxicity

#### Cocamidopropyl Betaine

Parameter	Method	Value	Exposure time	Species	Environment
NOErC		0.6 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC <sub>50</sub>		3000 mg/l	16 hours	Bacteria (Pseudomonas putida)	
NOEC		0.135 mg/l	37 days	Fish (Oncorhynchus mykiss)	
NOEC		0.3 mg/l	21 days	Daphnia (Daphnia magna)	

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 201	0.0004 mg/l		Algae	

### 12.2. Persistence and degradability

Data for the mixture are not available. Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

#### Biodegradability

##### Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

Parameter	Value	Exposure time	Environment	Result
	>60 %	28 days		

##### Cocamidopropyl Betaine

Parameter	Value	Exposure time	Environment	Result
	>60 %	28 days		

### 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

### 12.4. Mobility in soil

Data for the mixture are not available.

##### Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

Parameter	Value
Koc	>5000

### 12.5. Results of PBT and vPvB assessment

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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**

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.

**Packaging waste type code**

15 01 02 plastic packaging

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

not subject to transport regulations

**14.2. UN proper shipping name**

not relevant

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

not relevant

**14.4. Packing group**

not relevant

**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

**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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended**

Composition according to (EC) No 648/2004, as amended: <5 % phosphates, <5 % amphoteric surfactants, <5 % non-ionic surfactants, perfumes, Methylchloroisothiazolinone (and) methylisothiazolinone, colorant

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out (mixture).

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### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310+H330	Fatal in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### 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

Acute Tox.	Acute toxicity
ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
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
EC <sub>50</sub>	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
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
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
IMO	International Maritime Organization
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

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log Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
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
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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

**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 Tuesday, 25 July 2023. Changes were made in sections 2, 3, 7, 8, 9, 11, 12, 13 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.