

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

## **ALU CLEANER**

Creation date 25th July 2023

Revision date Version 5.0

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

..1. Product identifier ALU CLEANER

Substance / mixture mixture

Number 1 35475 - 1 L/1 35419 - 5 L/1 35420 - 20 L

UFI EGS9-71XV-X81S-F8GT

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

Mixture's intended use

Cleaning agent.

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)25018205VAT Reg NoCZ25018205Phone+420327596428E-mailinfo@retech.czWeb addresswww.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.

Skin Corr. 1, H314 Eye Dam. 1, H318

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

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

Causes serious eye damage. Causes severe skin burns and eye damage.

## 2.2. Label elements

### **Hazard pictogram**



## Signal word

Danger

## Hazardous substances

Orthophosphoric acid

**Hazard statements** 

H314 Causes severe skin burns and eye damage.

**Precautionary statements** 

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

#### 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
CAS: 77-92-9 EC: 201-069-1 Registration number: 01-2119457026-42	Citric acid	1-<5	Eye Irrit. 2, H319 STOT SE 3, H335	
Index: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 Registration number: 01-2119485924-24	Orthophosphoric acid	1-<5	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314	1, 2
CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	

## Notes

- 1 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.
- 2 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. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.



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#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

#### If in eves

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Never give anything by mouth to an unconscious person. Provide medical treatment.

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

#### If inhaled

Inhaling vapours can cause corrosion of the breathing system.

#### If on skin

Causes severe skin burns.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

#### 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. Do not inhale mist/vapours/spray. 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 concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. 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. Keep only in original packaging. Store locked up.

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

Do not store together with alkalis (caustic solutions). Do not store together with food, drink and animal feed.

### 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)	Туре	Value
Outhorhosphovic poid (CAS), 7664, 29, 2)	OEL 8 hours	1 mg/m³
Orthophosphoric acid (CAS: 7664-38-2)	OEL 15 minutes	2 mg/m <sup>3</sup>

### **DNEL**

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 bw/day	Chronic effects systemic		
Workers	Inhalation	960 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Inhalation	960 mg/m <sup>3</sup>	Acute effects local		
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic		

Orthophosphoric acid							
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source		
Workers	Inhalation	2 mg/m <sup>3</sup>	Acute effects local				
Workers	Inhalation	1 mg/m³	Chronic effects local				
Workers	Inhalation	10.7 mg/m <sup>3</sup>	Chronic effects systemic				
Consumers	Inhalation	0.36 mg/m <sup>3</sup>	Chronic effects local				
Consumers	Inhalation	4.57 mg/m <sup>3</sup>	Chronic effects systemic				
Consumers	Dermal	0.1 mg/kg bw/day	Chronic effects systemic				



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#### **PNEC**

ethanol	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								
Microorganisms in sewage treatment	580 mg/l								
Freshwater sediment	3.6 mg/kg of dry substance								
Sea sediments	2.9 mg/kg of dry substance								
Soil (agricultural)	0.63 mg/kg of dry substance								
Food chain	720 mg/kg of food								

### 8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. 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. Ensure workplace is equipped with a safety shower and eye wash station.

### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. 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. Contaminated skin should be washed thoroughly.

## Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

liquid

### Thermal hazard

Not available.

Physical state

#### **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

Colour colourless Odour characteristic 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 data not available Auto-ignition temperature data not available Decomposition temperature data not available 1.5-2 (undiluted) рΗ data not available Kinematic viscosity

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



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Density and/or relative density

Density data not available

Relative density 1.02

Relative vapour density data not available Particle characteristics data not available

Form liquid

data not available

9.2. Other information

Evaporation rate data not available

Oxidising properties The product has no oxidizing properties.

Explosive properties The product does not have explosive properties.

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

#### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

### 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

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. 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.

ALU CLEANER									
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination		
Oral	ATE		14290 mg/kg				Calculation of value		

ethanol	ethanol									
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination			
Oral	LD50	OECD 401	10470 mg/kg		Rat		Literary studies			
Inhalation (vapor)	LC50	OECD 403	116.9 mg/l	4 hours	Rat	М	Literary studies			

Orthophosphoric acid									
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination		
Inhalation	LC50		850 mg/l	2 hours	Rat				
Dermal	LD50		2740 mg/kg		Rabbit				



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### Skin corrosion/irritation

Causes severe skin burns and eye damage.

ethanol					
Route of exposure	Result	Method	Exposure time	Species	Value determination
	Not irritating	OECD 404		Rabbit	Literary studies

Orthophosphoric acid								
Route of exposure	Result	Method	Exposure time	Species	Value determination			
	Corrosive		24 hours	Rabbit				

### Serious eye damage/irritation

Causes serious eye damage. Causes severe skin burns and eye damage.

ethanol								
Route of exposure	Result	Method	Exposure time	Species	Value determination			
	Irritating	OECD 405		Rabbit	Literary studies			

Orthophosphoric acid							
Route of exposure	Result	Method	Exposure time	Species	Value determination		
	Corrosive			Rabbit			

## 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.

ethanol							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	
	Not sensitizing	OECD 429		Mouse		Literary studies	

## Germ cell mutagenicity

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

ethanol										
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determinati on	Source			
Negative	OECD 471			Bacteria (Salmonella typhimurium )		Literary studies				

Orthophosphoric	Orthophosphoric acid										
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determinati on	Source				
Negative	OECD 471			Bacteria (Salmonella typhimurium )			in vitro				
Negative	OECD 471			Bacteria (Escherichia coli)			in vitro				



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Orthophosphoric	acid						
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determinati on	Source
Negative	OECD 473		Lymphatic system	Human			in vitro
Negative	OECD 476		Lymphatic system	Mammals			in vitro

#### Carcinogenicity

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

Orthophosphoric acid								
Route of exposure	Parameter	Value	Result	Species	Sex			
			Negative					

### Reproductive toxicity

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

Orthophos	Orthophosphoric acid											
Effect	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determina tion	Source			
Developme ntal toxicity	NOAEL	OECD 414	≥410 mg/kg bw/day	Fetus	No effect	Rat		Analogous approach	Wistar			
Effects on fertility	NOAEL F1	OECD 422	≥500 mg/kg bw/day		No effect	Rat			Sprague -Dawley			

## Toxicity for specific target organ - single exposure

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

Orthophosphoric acid								
Route of exposure	Parameter	Value	Result	Species	Sex			
			No effect					

## 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.

Orthophosphoric acid									
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex		
Oral		OECD 422	250 mg/kg bw/day	90 days	No effect	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.



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#### 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**

ethanol	ethanol									
Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination				
LC50		14200 mg/l	96 hours	Fish (Pimephales promelas)		Literary studies, Continuous system				
EC50		5012 mg/l	48 hours	Daphnia (Ceriodaphnia dubia)		Literary studies, Static system				
ErC50	OECD 201	275 mg/l	72 hours	Algae (Chlorella vulgaris)		Literary studies				

Orthophosph	Orthophosphoric acid									
Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination				
LC50		3-3.25 mg/l	96 hours	Fish (Lepomis macrochirus)						
EC50	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)		Static system				
EC50	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		Static system, Indicator of growth				
EC50	OECD 209	>1000 mg/l	3 hours		Activated sludge					

## **Chronic toxicity**

ethanol								
Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination		
NOEC		9.6 mg/l	9 days	Daphnia (Daphnia magna)		Literary studies, Semi static system		

Orthophosphoric acid									
Parameter	Method	Value	Exposure time	Species	Environme nt	Value determination			
NOEC	OECD 201	100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		Static system, Indicator of growth			

### 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.



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#### **Biodegradability**

Citric acid								
Parameter	Value	Exposure time	Environment	Value determination	Result			
	>60 %	28 days						

ethanol							
Parameter	Value	Exposure time	Environment	Value determination	Result		
		28 days		Literary studies	Easily biodegradable		
BSK	1.5 mg			Calculation of value			

#### 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.

ethanol							
Parameter	Value	Environment	Temperature	Result			
				High			

#### 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

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.

## **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



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#### 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

<5 % phosphates, <5 % non-ionic surfactants

#### 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.

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

# 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
BOD Biochemical oxygen demand
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



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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
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 KowOctanol-water partition coefficientNOAELNo observed adverse effect levelNOECNo observed effect concentrationOELOccupational Exposure LimitsPBTPersistent, 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.

Eye Dam.

Flam. Liq.

Met. Corr.

Skin Corr.

Skin corrosion

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 02 August 2022. Changes were made in sections 2, 3, 8, 9, 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.