

# SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

## RoClean® OGC200

Creation date	06th July 2023	Version	7.0 EU
Revision date			

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

- 1.1. Product identifier**  
Substance / mixture: RoClean® OGC200  
UFI: VJ43-WH37-M00N-U8WP
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Removal of accumulated and burnt dirt.  
**Main intended use**  
PC-CLN-10.4 Oven, grill or barbecue cleaners  
**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**  
**Manufacturer**  
Name or trade name: P.W. ROKO Robert Komorniczak  
Address: ul. Wąska 23, Komorniki, 62-052 Poland  
Identification number (CRN): 632379987  
VAT Reg No: PL7810004269  
Phone: +48618107819  
E-mail: biuro@rokochemia.pl  
Web address: rokochemia.pl  
**Competent person responsible for the safety data sheet**  
Name: P.W. ROKO Robert Komorniczak  
E-mail: biuro@rokochemia.pl
- 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. 1A, 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 severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Danger

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#### Hazardous substances

potassium hydroxide  
2-aminoethanol  
sodium hydroxide

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

P102 Keep out of reach of children.  
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.  
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

#### Supplemental information

<5 % phosphates, <5 % phosphonates, <5 % anionic surfactants, <5 % non-ionic surfactants, <5 % EDTA and salts thereof

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

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

#### 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: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33-XXXX	potassium hydroxide	<10	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0.5 % ≤ C < 2 % Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Eye Irrit. 2, H319: 0.5 % ≤ C < 2 %	
Index: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3 Registration number: 01-2119486455-28-XXXX	2-aminoethanol	<5	Acute Tox. 4, H302+H312+H332 Skin Corr. 1B, H314 Specific concentration limit: STOT SE 3, H335: C ≥ 5 %	1
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27-XXXX	sodium hydroxide	<5	Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0.5 % ≤ C < 2 % Skin Irrit. 2, H315: 0.5 % ≤ C < 2 %	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68515-73-1 EC: 500-220-1 Registration number: 01-2119488530-36	D-Glucopyranose, oligomeric, decyl octyl glycosides	<3	Eye Dam. 1, H318	
CAS: 7320-34-5 EC: 230-785-7 Registration number: 01-2119489769-18-XXXX	Tetrapotassium pyrophosphate	<3	Eye Irrit. 2, H319	

**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**

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. 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.

**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. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

**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. 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! 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**

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.

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#### 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.

#### 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. Avoid release to the environment.

##### 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. Store locked up.

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

##### 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 2006/15/EC

Substance name (component)	Type	Value	Note
2-aminoethanol (CAS: 141-43-5)	OEL 8 hours	2,5 mg/m <sup>3</sup>	Skin
	OEL 8 hours	1 ppm	

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#### European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
2-aminoethanol (CAS: 141-43-5)	OEL 15 minutes	7,6 mg/m <sup>3</sup>	Skin
	OEL 15 minutes	3 ppm	

#### DNEL

2-aminoethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	1 mg/kg bw/day	Chronic effects systemic		
Workers (0)	Inhalation	3.3 mg/m <sup>3</sup>	Chronic effects local		
Consumers (0)	Dermal	0.24 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Inhalation	2 mg/m <sup>3</sup>	Chronic effects local		
Consumers (0)	Oral	3.75 mg/kg/24h	Chronic effects systemic		

sodium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Inhalation	1.0 mg/m <sup>3</sup>	Chronic effects local		
Consumers (0)	Inhalation	1.0 mg/m <sup>3</sup>	Chronic effects local		

#### PNEC

2-aminoethanol

Route of exposure	Value	Value determination	Source
Drinking water	0.085 mg/l		
Marine water	0.0085 mg/l		
Water (intermittent release)	0.025 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	0.425 mg/kg		
Sea sediments	0.0425 mg/kg		
Soil (agricultural)	0.035 mg/kg		

#### 8.2. Exposure controls

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.

##### 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. 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

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.

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#### SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
color intensity	transparent
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	≥100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	13-14 (undiluted)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,07-1,10 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

##### 9.2. Other information

not available

#### 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

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 available data the classification criteria are not met.

##### 2-aminoethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	1089 mg/kg		Rat (Rattus norvegicus)		

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#### 2-aminoethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Dermal	LD <sub>50</sub>	2504 mg/kg		Rat ( <i>Rattus norvegicus</i> )		
Inhalation	LD <sub>50</sub>	1.48 mg/l	48 hours	Rat ( <i>Rattus norvegicus</i> )		

#### D-Glucopyranose, oligomeric, decyl octyl glycosides

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	>2000 mg/kg		Rat ( <i>Rattus norvegicus</i> )		

#### potassium hydroxide

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	>300 mg/kg		Rat ( <i>Rattus norvegicus</i> )		

#### RoClean® OGC200

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	3542 mg/kg				Calculation of value
Dermal	ATE	22450 mg/kg				Calculation of value
Inhalation (vapor)	ATE	224.5 mg/l				Calculation of value

#### sodium hydroxide

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Intraperitoneally	LD <sub>50</sub>	40 mg/kg		Mouse		
Oral	TDLo	500 mg/kg		Rabbit		
Oral	TDLo	44 mg/kg		Rat ( <i>Rattus norvegicus</i> )		

#### Tetrapotassium pyrophosphate

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	4640 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )		
Dermal	LD <sub>50</sub>	>4640 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )		
Inhalation	LC <sub>50</sub>	>1100 mg/l	48 hours	Rat ( <i>Rattus norvegicus</i> )		

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

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

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### 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.

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**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**

Harmful to aquatic life with long lasting effects.

2-aminoethanol

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	349 mg/l	96 hours	Fish (Cyprinus carpio)	
LC <sub>50</sub>	65 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC <sub>50</sub>	2.5 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
EC <sub>50</sub>	>1000 mg/l	3 hours	Microorganisms	
NOEC	0.85 mg/l		Daphnia (Daphnia magna)	

D-Glucopyranose, oligomeric, decyl octyl glycosides

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	300 mg/l	24 hours	Fish (Daphnia magna)	

sodium hydroxide

Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	40.4 mg/l	48 hours	Daphnia (Ceriodaphnia dubia)	
EC <sub>50</sub>	22 mg/l	15 minutes	Microorganisms (Photobacterium phosphoreum)	

**12.2. Persistence and degradability**

**Biodegradability**

2-aminoethanol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	>90 %			Easily biodegradable

D-Glucopyranose, oligomeric, decyl octyl glycosides

Parameter	Method	Value	Exposure time	Environment	Result
		>70 %			

The mixture is biodegradable.

**12.3. Bioaccumulative potential**

2-aminoethanol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	1.91				

Not available.

**12.4. Mobility in soil**

Not available.

**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**

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.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1760

**14.2. UN proper shipping name**

CORROSIVE LIQUID, N.O.S.

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

8 Corrosive substances

**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.

80

UN number

1760

Classification code

C9

Safety signs

8



**Air transport - ICAO/IATA**

Packaging instructions passenger

851

Cargo packaging instructions

855

**Marine transport - IMDG**

EmS (emergency plan)

F-A, S-B

MFAG

760

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#### 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).

##### 15.2. Chemical safety assessment

not available

#### SECTION 16: Other information

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

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

P102	Keep out of reach of children.
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.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

##### 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
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
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

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Creation date	06th July 2023	Version	7.0 EU
Revision date			

<p>ISO IUPAC LC<sub>50</sub> LD<sub>50</sub> log Kow NOEC OEL PBT ppm REACH RID UN UVCB VOC vPvB</p>	<p>International Organization for Standardization International Union of Pure and Applied Chemistry Lethal concentration of a substance in which it can be expected death of 50% of the population Lethal dose of a substance in which it can be expected death of 50% of the population Octanol-water partition coefficient No observed effect concentration Occupational Exposure Limits Persistent, Bioaccumulative and Toxic Parts per million Registration, Evaluation, Authorisation and Restriction of Chemicals Agreement on the transport of dangerous goods by rail Four-figure identification number of the substance or article taken from the UN Model Regulations Substances of unknown or variable composition, complex reaction products or biological materials Volatile organic compounds Very Persistent and very Bioaccumulative</p>
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<p>Acute Tox. Eye Dam. Met. Corr. Skin Corr. STOT SE</p>	<p>Acute toxicity Serious eye damage Corrosive to metals Skin corrosion Specific target organ toxicity - single exposure</p>
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**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 7.0 replaces the SDS version from 12 December 2022. Changes were made in sections 1, 2, 11, 15 and 16.

**More information**

Classification procedure - calculation method.

**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.