

#### Potassium peroxymonosulphate triple salt, pure

article number: **1AA1** Version: **2.0 en** Replaces version of: 17.04.2020 Version: (1)

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

1.1 Product identifie	r
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Identification of the substance

Article number

number

ot rolovant (mixturo)

Registration number (REACH)

not relevant (mixture)

pure

1AA1

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

Potassium peroxymonosulphate triple salt,

### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

### sicherheit@carlroth.de

### 1.4 Emergency telephone number

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	1B	Skin Corr. 1B	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

date of compilation: 17.04.2020 Revision: 04.05.2022

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Suppleme	ental hazard information
Code	Supplemental hazard information
EUH208	contains Potassium persulphate. May produce an allergic reaction

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

H412

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word	Danger
Pictograms	$\wedge$
GHS05, GHS07	
Hazard statemer	nts
H302 H314	Harmful if swallowed Causes severe skin burns and eve damage

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P260Do not breathe dustP280Wear protective gloves/protective clothing/eye protection/face protection

Harmful to aquatic life with long lasting effects

#### **Precautionary statements - response**

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 POISON CENTER/doctor

#### Supplemental hazard information

EUH208 Contains Potassium persulphate. May produce an allergic reaction.

Hazardous ingredients for labelling:

Pentapotassium bis(peroxymonosulphate) bis(sulphate), Dipotassium disulphate, Potassium hydrogen sulphate

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger





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H314 H412	Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.
	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 POISON CENTER/doctor.
EUH208 contains:	Contains Potassium persulphate. May produce an allergic reaction. Pentapotassium bis(peroxymonosulphate) bis(sulphate), Dipotassium disulphate, Potassium hydrogen sulphate

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	CAS No 70693-62-8	> 90	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318		
suprace, bis(suprace)	EC No 274-778-7		Aquatic Chronic 3 / H412		
	REACH Reg. No 01-2119485567- 22-xxxx				
Dipotassium di- sulphate	CAS No 7790-62-7	≤ 5	Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318		
	EC No 232-216-8		EUH071	<b>~ ~</b>	
Potassium hydrogen sulphate	CAS No 7646-93-7	≤5	Skin Corr. 1B / H314 STOT SE 3 / H335		GHS-HC
	EC No 231-594-1				
	Index No 016-056-00-4				
Potassium per- sulphate	CAS No 7727-21-1	< 5	Ox. Sol. 3 / H272 Acute Tox. 4 / H302 Skin Irrit. 2 / H315		GHS-HC
	EC No 231-781-8		Eye Irrit. 2 / H313 Resp. Sens. 1 / H334 Skin Sens. 1 / H317		
	Index No 016-061-00-1		STOT SE 3 / H335	<b>W</b>	
	REACH Reg. No 01-2119495676- 19-xxxx				

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)

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Name of sub- stance	Identifier	Specific Conc. Limits	<b>M-Factors</b>	ΑΤΕ	Exposure route
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	CAS No 70693-62-8 EC No 274-778-7	-	-	500 <sup>mg</sup> / <sub>kg</sub>	oral inhalation: dust/ mist
Dipotassium di- sulphate	CAS No 7790-62-7 EC No 232-216-8	-	-	>0,5 <sup>mg</sup> / <sub>l</sub> /4h	inhalation: dust/ mist
Potassium per- sulphate	CAS No 7727-21-1 EC No 231-781-8 Index No 016-061-00-1	-	-	742 <sup>mg</sup> / <sub>kg</sub>	oral

For full text of abbreviations: see SECTION 16

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Rinse mouth with water (only if the person is conscious). Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, Allergic reactions

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

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## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Non-combustible.

#### Hazardous combustion products

Sulphur oxides (SOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

## Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

#### **Ventilation requirements**

Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

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#### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

Relevant DNELs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	0,28 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	50 mg/m³	human, inhalat- ory	worker (industry)	acute - systemic effects			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	0,28 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	50 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects			

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Relevant DNELs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time		
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		
Dipotassium di- sulphate	7790-62-7	DNEL	0,13 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects		
Dipotassium di- sulphate	7790-62-7	DNEL	0,26 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects		
Dipotassium di- sulphate	7790-62-7	DNEL	0,13 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects		
Dipotassium di- sulphate	7790-62-7	DNEL	0,26 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects		
Potassium per- sulphate	7727-21-1	DNEL	2,06 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects		
Potassium per- sulphate	7727-21-1	DNEL	590 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects		
Potassium per- sulphate	7727-21-1	DNEL	2,06 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects		
Potassium per- sulphate	7727-21-1	DNEL	18,2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
Potassium per- sulphate	7727-21-1	DNEL	400 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		

Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	0,022 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	0,002 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	108 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	0,078 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			

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Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	0,008 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)			
Pentapotassium bis(peroxymono- sulphate) bis(sulph- ate)	70693-62-8	PNEC	1 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	0,68 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	0,068 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	800 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	2,5 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	0,25 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)			
Dipotassium di- sulphate	7790-62-7	PNEC	0,092 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	0,076 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	0,011 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	3,6 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	0,275 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	0,04 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)			
Potassium per- sulphate	7727-21-1	PNEC	0,015 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)			

## 8.2 Exposure controls

Individual protection measures (personal protective equipment)

**Eye/face protection** 



Use safety goggle with side protection. Wear face protection.

**Skin protection** 



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#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

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

Physical state	solid
Form	granulate
Colour	white
Odour	odourless
Melting point/freezing point	90 °C (slow decomposition)
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	>400 °C
Decomposition temperature	>90 °C

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	pH (value)	2,1 (in aqueous solution: 30 <sup>g</sup> / <sub>l</sub> , 20 °C)
	Kinematic viscosity	not relevant
	Solubility(ies)	
-	Water solubility	357 <sup>g</sup> / <sub>l</sub> at 20 °C
-	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
,	Vapour pressure	not determined
	Density and/or relative density	
	Density	2,35 <sup>g</sup> / <sub>cm³</sub> at 20 °C
	Relative vapour density	information on this property is not available
	Bulk density	950 – 1.250 <sup>kg</sup> / <sub>m³</sub>
	Particle characteristics	No data available.
	Other safety parameters	
	Oxidising properties	none
	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	There is no additional information.

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

### 10.1 Reactivity

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This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Strong alkali

#### 10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >90 °C.

# 10.5 Incompatible materials

There is no additional information.

## **10.6** Hazardous decomposition products

Hazardous combustion products: see section 5.

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## **SECTION 11: Toxicological information**

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

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Harmful if swallowed.

Acute toxicity estimate (ATE) of components of the mixture					
Name of substance	ATE				
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	oral	500 <sup>mg</sup> / <sub>kg</sub>		
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	inhalation: dust/mist			
Dipotassium disulphate	7790-62-7	inhalation: dust/mist	>0,5 <sup>mg</sup> / <sub>l</sub> /4h		
Potassium persulphate	7727-21-1	oral	742 <sup>mg</sup> / <sub>kg</sub>		

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species		
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	oral	LD50	500 <sup>mg</sup> / <sub>kg</sub>	rat		
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	inhalation: dust/mist	LC50	>5 <sup>mg</sup> / <sub>l</sub> /4h	rat		
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		
Potassium hydrogen sulphate	7646-93-7	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		
Dipotassium disulphate	7790-62-7	oral	LD50	2.140 <sup>mg</sup> / <sub>kg</sub>	rat		
Potassium persulphate	7727-21-1	oral	LD50	742 <sup>mg</sup> / <sub>kg</sub>	rat		
Potassium persulphate	7727-21-1	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Contains Potassium persulphate. May produce an allergic reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

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#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

#### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### If inhaled

Inhalation of dust may cause irritation of the respiratory system

#### • If on skin

causes severe burns, causes poorly healing wounds, May produce an allergic reaction, pruritis, localised redness

#### Other information

none

#### **11.2** Endocrine disrupting properties

None of the ingredients are listed.

#### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture						
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time	
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	LC50	53 <sup>mg</sup> /l	fish	96 h	
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	EC50	3,5 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h	

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Aquatic toxicity (acute) of components of the mixture						
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time	
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	algae	72 h			
Dipotassium di- sulphate	7790-62-7	LC50 680 <sup>mg</sup> / <sub>l</sub>		fish	96 h	
Dipotassium di- sulphate	7790-62-7	EC50	720 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h	
Potassium per- sulphate	7727-21-1	LC50	76,3 <sup>mg</sup> / <sub>l</sub>	fish	96 h	
Potassium per- sulphate	7727-21-1	EC50	120 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h	

#### Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	LC50	367 <sup>µg</sup> / <sub>l</sub>	aquatic invertebrates	28 d
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	70693-62-8	EC50	179 <sup>mg</sup> / <sub>l</sub>	microorganisms	18 h
Potassium per- sulphate	7727-21-1	EC50	11 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	5 d

#### **Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.2 Process of degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Pentapotassium bis(peroxy- monosulphate) bis(sulphate)	70693-62-8		<0,3 (pH value: ~1, 20 °C)	

#### 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

according to Regulation (EC) No. 1907/2006 (REACH)





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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1	UN number or ID number	
	ADR	UN 3260
	IMDG-Code	UN 3260
	ICAO-TI	UN 3260
14.2	UN proper shipping name	
	ADR	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
	IMDG-Code	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
	ICAO-TI	Corrosive solid, acidic, inorganic, n.o.s.
	Technical name (hazardous ingredients)	Pentapotassium bis(peroxymonosulphate) bis(sulphate), Dipotassium disulphate
14.3	Transport hazard class(es)	
	ADR	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	ADR	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations

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## **14.6** Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.

## **14.7** Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

# Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Particulars in the transport document	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., (contains: Pentapotassium bis(peroxy- monosulphate) bis(sulphate), Dipotassium di- sulphate), 8, II, (E)
Classification code	C2
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80
International Maritime Dangerous Goods Code	(IMDG) - Additional information
Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Particulars in the shipper's declaration	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., (contains: Pentapotassium bis(peroxy- monosulphate) bis(sulphate), Dipotassium di- sulphate), 8, II
Marine pollutant	-
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-B
Stowage category	В
Segregation group	1 - Acids

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International Civil Aviation Organization (ICA	O-IATA/DGR) - Additional information
Proper shipping name	Corrosive solid, acidic, inorganic, n.o.s.
Particulars in the shipper's declaration	UN3260, Corrosive solid, acidic, inorganic, n.o.s., (contains: Pentapotassium bis(peroxymono- sulphate) bis(sulphate), Dipotassium disulphate), 8, II
Danger label(s)	8
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 kg

## **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1

#### Relevant provisions of the European Union (EU)

#### **Restrictions according to REACH, Annex XVII**

angerous substances with restrictions (REACH, Annex XVII)						
Name of substanceName acc. to inventoryCAS NoRestrictionNo						
Dipotassium disulphate	substances in tattoo inks and perman- ent make-up		R75	75		

Leaend R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category A, 1B or 2, or greater than 0,00005 % by weight; (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001% by

weight;

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat-egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

(i) 0,1 % by weight, if the substance is used solely as a pH regulator

(ii) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight: (i) "Rinse-off products"

(i) "Not to be used in products ;
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";
(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration imit products in that concentration is present in the company.

(n) In the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the strictest is paragraph 1 shall apply to that substance.

paragraph 1 shall apply to that substance.

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# Legend 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8); (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6). 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub-5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification. 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tationing purposes shall ensure that, after 4 January 2022, the 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the (a) the statement "Mixture for use in tattoos or permanent make-up"; (b) a reference number to uniquely identify the batch; (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im-purities that not he regarded as ingredients. If the name of purpose as ingredients of a substance within the mixture for use for tattooing purposes. purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi-ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes 9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8). 10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an

a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

#### **Seveso Directive**

2012/18/EU (Seveso III)			
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes
	not assigned		

#### **Deco-Paint Directive**

VOC content	0 % 0 <sup>g</sup> / <sub>1</sub>

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Industrial Emissions Directive (IED)		
VOC content	0 %	
VOC content	0 <sup>g</sup> / <sub>l</sub>	

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

#### Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Pentapotassium bis(peroxymono- sulphate) bis(sulphate)	Metals and their compounds		a)	
Dipotassium disulphate	Metals and their compounds		a)	
Potassium hydrogen sulphate	Metals and their compounds		a)	
Potassium persulphate	Metals and their compounds		a)	

#### Legend A)

Indicative list of the main pollutants

#### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

#### **Regulation on drug precursors**

none of the ingredients are listed

#### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed

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Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

#### Legend

AIIĊ	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1		Supplemental hazard information: change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible dam- age to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes

## Restructuring: section 9, section 14

according to Regulation (EC) No. 1907/2006 (REACH)

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#### article number: **1AA1**

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code

according to Regulation (EC) No. 1907/2006 (REACH)



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Abbr.	Descriptions of used abbreviations
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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Code	Text
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.