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

1.1 Product identifier

Trade name **Oxygen granules**

SDS-Ref 07560

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

Relevant identified uses
Water treatment chemical
Professional use
Consumer use (private households)

Uses advised against
Do not use for squirting or spraying
Do not use for products which come into direct contact with the skin

1.3 Details of the supplier of the safety data sheet

Steinbach VertriebsgmbH
Aistinger Straße 2
4311 Schwertberg
Austria
Telephone: +43 7262 61431 0
e-Mail: info@steinbach.at
e-Mail (competent person): sdb@steinbach.at

1.4 Emergency telephone number

Country	Name	Postal code/city	Telephone	Opening hours
Austria	Vergiftungsinformationszentrale	1090 Wien	+43 1 406 4343 (24h)	
United Kingdom	National Poisons Information Service		111 (24h)	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.1O	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

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

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

- Signal word Danger
- Pictograms

GHS05, GHS07

- Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point.

- Supplemental hazard information

EUH208	Contains Dipotassium peroxodisulfate. May produce an allergic reaction.

- Hazardous ingredients for labelling Pentapotassium bis(peroxymonosulphate) bis(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 substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
Pentapotassium bis(peroxy-monosulphate) bis(sulphate)	CAS No 70693-62-8 EC No 274-778-7 REACH Reg. No 01-2119485567-22-xxxx	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		≥ 90
Dipotassium peroxodisulfate	CAS No 7727-21-1 EC No 231-781-8 Index No 016-061-00-1 REACH Reg. No 01-2119495676-19-xxxx	Ox. Sol. 3 / H272 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335		< 1

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Sulphur oxides (SOx)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

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.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

Control of effects

- Protect against external exposure, such as

High temperatures, Frost, Humidity, UV-radiation/sunlight

- Ventilation requirements

Use local and general ventilation.

Packaging compatibilities

Professional use: Only packagings which are approved (e.g. acc. to ADR) may be used. Consumer use (private households): Keep only in original container.

Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
GB	dust		WEL		10					i	EH40 / 2005
GB	dust		WEL		4					r	EH40 / 2005

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	0.28 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	50 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	0.28 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
DNEL	50 mg/m³	human, inhalatory	worker (industry)	acute - local effects
DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
DNEL	0.14 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
DNEL	25 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
DNEL	0.14 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
DNEL	25 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
DNEL	10 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
DNEL	40 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects

Relevant DNELs and other threshold levels

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	10 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
DNEL	10 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	0.14 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	25 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	0.14 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	25 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	10 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	40 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	10 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	DNEL	10 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	1.03 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	295 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	1.03 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	295 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	9.1 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	200 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	9.1 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Dipotassium peroxodi-sulfate	7727-21-1	DNEL	30 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Environmental values

Relevant PNECs and other threshold levels

Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.022 mg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	108 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0.078 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0.008 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	0.022 mg/l	aquatic organisms	freshwater	short-term (single instance)
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	108 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	0.078 mg/kg	aquatic organisms	freshwater sedi-ment	short-term (single instance)
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	0.008 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Pentapotassium bis(peroxymono-sulphate) bis(sulphate)	70693-62-8	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	0.076 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	0.011 mg/l	aquatic organisms	marine water	short-term (single instance)
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	3.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	0.275 mg/kg	aquatic organisms	freshwater sedi-ment	short-term (single instance)
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	0.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components of the mixture						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
Dipotassium peroxodi-sulfate	7727-21-1	PNEC	0.015 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143)

Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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
Colour	white
Odour	characteristic

Other safety parameters

pH (value)	2.1 (water: 30 $^{g}/_{l}$, 20 °C) (acid)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	not determined
Vapour pressure	<0 Pa at 25 °C
Density	2.34 $^{g}/_{cm^3}$ at 20 °C
Vapour density	this information is not available

Bulk density	1,100 – 1,400 $^{kg}/_{m^3}$
Auto-ignition temperature	not determined
Decomposition temperature	90 °C
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidising properties	none

Solubility(ies)

- Water solubility	≤370 $^{g}/_{l}$ at 20 °C

Partition coefficient

- n-Octanol/water (log KOW)	<0.3 (pH value: ~1, 20 °C)
- Soil organic carbon/water (log KOC)	<1.256

9.2 Other information

There is no additional information.

Surface tension 72.9 $^{mN}/_{m}$ (23 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Acute toxicity estimate (ATE)

Oral 500 $^{mg}/_{kg}$

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	**CAS No**	**Exposure route**	**ATE**
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	oral	500 $^{mg}/_{kg}$
Dipotassium peroxodisulfate	7727-21-1	oral	742 $^{mg}/_{kg}$

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Contains Dipotassium peroxodisulfate. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

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.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Dipotassium peroxodi-sulfate	7727-21-1	EC50	11 $^{mg}/_{l}$	aquatic invertebrates	5 d

12.2 Persistence and 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(peroxymono-sulphate) 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 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

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. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

Remarks

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

SECTION 14: Transport information

14.1 UN number	3260
14.2 UN proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Technical name (hazardous ingredients)	Pentapotassium bis(peroxymonosulphate) bis(sulphate) Dipotassium disulphate
14.3 Transport hazard class(es)	
Class	8 (corrosive substances)
14.4 Packing group	II (substance presenting medium danger)
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

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

UN number	3260
Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Class	8
Classification code	C2
Packing group	II
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
Emergency Action Code	2X

International Maritime Dangerous Goods Code (IMDG)

UN number	3260
Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Class	8
Marine pollutant	-
Packing group	II
Danger label(s)	8

Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-B
Stowage category	B
Segregation group	1 - Acids

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3260
Proper shipping name	Corrosive solid, acidic, inorganic, n.o.s.
Class	8
Packing group	II
Danger label(s)	8

Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

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

None of the ingredients are listed.

Seveso Directive

No	Dangerous substance/hazard categories
	not assigned

Deco-Paint Directive (2004/42/EC)

VOC content	0 %

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	0 %

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed

Legend
REACH Reg. REACH registered substances

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)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
7.3	Specific end use(s): See section 16 for a general overview.	Specific end use(s): There is no additional information.	yes
9.1	Solubility(ies)		yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.1	Water solubility: ≤370 g/l at 20 °C		yes
9.1	Partition coefficient		yes
9.1	- n-octanol/water (log KOW): <0.3 (pH value: ~1, 20 °C)		yes
9.1	Soil organic carbon/water (log KOC): <1.256		yes
9.1	Oxidising properties: none		yes
9.1		Oxidising properties: none	yes
9.1		Solubility(ies)	yes
9.1		Water solubility: ≤370 g/l at 20 °C	yes
9.1		Partition coefficient	yes
9.1		n-Octanol/water (log KOW): <0.3 (pH value: ~1, 20 °C)	yes
9.1		Soil organic carbon/water (log KOC): <1.256	yes
9.2	Other information	Other information: There is no additional information.	yes
11.1		Acute toxicity estimate (ATE)	yes
13.1	Professional use: Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.		yes
13.1	Consumer use (private households): Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.		yes
13.1		Other disposal recommendations: Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.	yes
13.1		Relevant provisions relating to waste	yes
13.1		List of wastes (EU), Decision 2000/532/EC on the list of waste: Product Code/ Type of waste: 19 09 99	yes
14.2	Technical name (hazardous ingredients): Pentapotassium bis(peroxymonosulphate) bis(sulphate), Potassium hydrogensulfate	Technical name (hazardous ingredients): Pentapotassium bis(peroxymonosulphate) bis(sulphate) Dipotassium disulphate	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Danger label(s): change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	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 navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning 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)
Ceiling-C	ceiling value
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 identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
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 Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	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
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
Ox. Sol.	oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin

Abbr.	Descriptions of used abbreviations
Skin Irrit.	irritant to skin
Skin Sens.	skin sensitisation
STEL	short-term exposure limit
STOT SE	specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

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 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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 chapter 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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.