Safety Data Sheet

acc. to The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

Melpool OXY

Version number: 6.0
Replaces version of: 2016-10-19 (5)

Revision: 2022-08-16
First version: 2004-03-10

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

1.1 Product identifier

Trade name — **Melpool OXY**

CAS number — not relevant (mixture)

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

Relevant identified uses — Water treatment

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

Melspring International B.V.
Arnhemsestraatweg 8
NL-6881 NG Velp
Netherlands

Telephone: ++31 (0) 26 - 38420 - 00
Telefax: ++31 (0) 26 - 38420 - 11

e-mail (competent person) — sdb@csb-compliance.com

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact Melspring International B.V.

1.4 Emergency telephone number

As above or nearest toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Classification

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
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

Classification

Section	Hazard class	Category	Hazard class and category	Hazard statement
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 (acc. to GB 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.
P103 Read carefully and follow all instructions.
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental hazard information

EUH208 Contains potassium persulphate. May produce an allergic reaction.

Hazardous ingredients for labelling

pentapotassium bis(peroxymonosulphate)bis(sulphate)
potassium hydrogensulphate
potassium persulphate

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

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
pentapotassium bis(peroxymono-sulphate)bis(sulph-ate)	CAS No 70693-62-8 EC No 274-778-7	≥ 90	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		-
potassium hydrogen-sulphate	CAS No 7646-93-7 EC No 231-594-1 Index No 016-056-00-4	5 – < 10	Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335		-
potassium per-sulphate	CAS No 7727-21-1 EC No 231-781-8 Index No 016-061-00-1	5 – < 10	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		-

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
pentapotassium bis(per-oxymonosulphate)bis(su lphate)	-	-	500 $^{mg}/_{kg}$	oral inhalation: dust/ mist
potassium persulphate	-	-	920 $^{mg}/_{kg}$	oral

for full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Self-protection of the first aider.
Remove affected person from the danger area and lay down.
Do not leave affected person unattended.
Take off immediately all contaminated clothing.
In case of accident or if you feel unwell, seek medical advice immediately (show the label or safety data sheet where possible).

Following inhalation

Provide fresh air.
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.
In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Call a physician immediately. Causes poorly healing wounds.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth. Do not induce vomiting.
In case of unconsciousness place person in the recovery position. Never give anything by mouth.
Call a physician immediately.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

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, fire extinguishing powder

Unsuitable extinguishing media

water jet, carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2), sulphur oxides (SOx), metal oxides

5.3 Advice for firefighters

Non-combustible.
Keep containers cool with water spray.
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.

Special protective equipment for firefighters

chemical protection suit, wear self-contained breathing apparatus

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.
Do not breathe dust.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

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.
If substance has entered a water course or sewer, inform the responsible authority.
Stop leak if safe to do so.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.
Collect spillage.

Appropriate containment techniques

Neutralisation techniques. (Alkalines. , Ammonia (NH3))

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

Avoid contact with skin and eyes.
Do not breathe dust.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Specific notes/details

None.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.
Wash hands after use.
Preventive skin protection (barrier creams/ointments) is recommended.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.
Store away from caustic solutions.

Protect against external exposure, such as

heat, humidity

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.
Store in a dry place.
Keep locked up.

Storage temperature recommended storage temperature: <50 °C

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

Water treatment.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	DNEL	0.28 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	DNEL	0.28 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
potassium persulphate	7727-21-1	DNEL	0.824 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
potassium persulphate	7727-21-1	DNEL	10.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture				
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Environmental compartment**
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	0.022 $^{mg}/_{l}$	freshwater
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	0.002 $^{mg}/_{l}$	marine water
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	108 $^{mg}/_{l}$	sewage treatment plant (STP)
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	0.078 $^{mg}/_{kg}$	freshwater sediment
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	0.008 $^{mg}/_{kg}$	marine sediment
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	PNEC	1 $^{mg}/_{kg}$	soil
potassium persulphate	7727-21-1	PNEC	0.518 $^{mg}/_{l}$	freshwater
potassium persulphate	7727-21-1	PNEC	0.052 $^{mg}/_{l}$	marine water
potassium persulphate	7727-21-1	PNEC	3.6 $^{mg}/_{l}$	sewage treatment plant (STP)
potassium persulphate	7727-21-1	PNEC	2.03 $^{mg}/_{kg}$	freshwater sediment
potassium persulphate	7727-21-1	PNEC	0.203 $^{mg}/_{kg}$	marine sediment
potassium persulphate	7727-21-1	PNEC	0.1 $^{mg}/_{kg}$	soil
pentapotassium bis(peroxymonosulphate)bis(sulphate): PNEC Oral - Predators - Secondary poisoning - 44,44 mg/kg food				

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (EN 166).

Hand protection

Protective gloves		
Material	**Material thickness**	**Breakthrough times of the glove material**
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)

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.

Body protection

Protective clothing for use against solid particulates.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.
P3 (filters at least 99,95 % of airborne particles, colour code: White).

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 (granulate)
Colour	white
Odour	odourless
Melting point/freezing point	Spontaneous decomposition
Boiling point or initial boiling point and boiling range	spontaneous decomposition
Flammability	non-combustible
Lower and upper explosion limit	not applicable (solid)
Flash point	not applicable
Auto-ignition temperature	not applicable (solid)
Decomposition temperature	>50 °C
pH (value)	2.1 (in aqueous solution: 3 % ($^{w}/_{w}$))
Viscosity	not relevant (solid)
Solubility(ies)	
Water solubility	297 – 357 $^{g}/_{l}$ at 20 °C
Partition coefficient n-octanol/water (log value)	not relevant (inorganic)

Vapour pressure	<0.0001 hPa at 25 °C
Density and/or relative density	
Density	2.35 $^{g}/_{cm^3}$ at 20 °C
Relative vapour density	not applicable
Bulk density	1,100 – 1,400 $^{kg}/_{m^3}$
Particle characteristics	no data available
Other safety parameters	
Oxidising properties	a negative result is obtained

9.2 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

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.
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

High temperatures(>50°C)

10.5 Incompatible materials

halogen substances, cyanide, metal salt of organic compound, metal salt, inorganic

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

Classification procedure

If not otherwise specified the classification is based on:
Ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Test data are not available for the complete mixture.
Harmful if swallowed.
Dermal, Inhalation.
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source	Notes
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	oral	LD50	500 mg/kg	rat	OECD Guideline 423	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	inhalation: dust/mist	LC0	>5 mg/l/4h	rat	OECD Guideline 403	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	dermal	LD0	>2,000 mg/kg	rat	OECD Guideline 402	ECHA	-
potassium hydrogensulphate	7646-93-7	oral	LD50	>2,000 mg/kg	rat, female	OECD Guideline 423	ECHA	read-across
potassium persulphate	7727-21-1	oral	LD50	920 mg/kg	rat, female	OECD Guideline 401	ECHA	-
potassium persulphate	7727-21-1	oral	LD50	930 mg/kg	rat, male	OECD Guideline 401	ECHA	-
potassium persulphate	7727-21-1	dermal	LD0	>2,000 mg/kg	rat	EPA OPP 81-2	ECHA	-

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Contains potassium persulphate. May produce an allergic reaction.
Skin sensitisation.
Shall not be classified as a skin sensitiser.
(Manufacturer, OECD Guideline 406)

Respiratory sensitisation

Shall not be classified as a respiratory sensitiser.
(Manufacturer, Expert judgement)

Germ cell mutagenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Information on this property is not available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.
Based on available data, the classification criteria are not met.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source	Notes
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	LC50	96 h	1,090 µg/l	sheepshead minnow (Cyprinodon variegatus)	EPA OPPTS 850.1075	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	LC50	96 h	1,180 µg/l	saltwater invertebrates (Mysidopsis bahia)	EPA OPPTS 850.1035	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	EC50	48 h	3.5 mg/l	daphnia magna	OECD Guideline 202	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	ErC50	72 h	>1 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	-
potassium hydrogensulphate	7646-93-7	LC50	48 h	1,766 mg/l	daphnia magna	-	ECHA	read-across
potassium persulphate	7727-21-1	LC50	96 h	76.3 mg/l	rainbow trout (Oncorhynchus mykiss)	-	ECHA	read-across
potassium persulphate	7727-21-1	EC50	48 h	120 mg/l	daphnia magna	-	ECHA	-
potassium persulphate	7727-21-1	EC50	72 h	136 mg/l	Alge (Phaeodactylum tricornutum)	OECD Guideline 201	ECHA	-

Aquatic toxicity (chronic)

Harmful to aquatic life with long lasting effects.
Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source	Notes
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	EC50	18 h	179 mg/l	activated sludge (Pseudomonas putida)	-	ECHA	-
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	growth (EbCx) 10%	18 h	108 mg/l	activated sludge (Pseudomonas putida)	-	ECHA	-
potassium persulphate	7727-21-1	EC50	21 d	44 mg/l	daphnia magna	OECD Guideline 211	ECHA	-
potassium persulphate	7727-21-1	NOEC	21 d	20.8 mg/l	daphnia magna	OECD Guideline 211	ECHA	-
potassium persulphate	7727-21-1	NOEC	72 h	32 mg/l	Alge (Phaeodactylum tricornutum)	OECD Guideline 201	ECHA	-
potassium persulphate	7727-21-1	LOEC	21 d	75 mg/l	daphnia magna	OECD Guideline 211	ECHA	-
potassium persulphate	7727-21-1	growth (EbCx) 10%	21 d	25.9 mg/l	daphnia magna	OECD Guideline 211	ECHA	-
potassium persulphate	7727-21-1	growth (EbCx) 10%	18 h	36 mg/l	activated sludge (Pseudomonas putida)	-	ECHA	-

12.2 Persistence and degradability

Biodegradation

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

Persistence

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

n-octanol/water (log KOW) not relevant (inorganic)

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
pentapotassium bis(peroxymonosulphate)bis(sulphate)	70693-62-8	-	<0.3 (pH value: ~1, 20 °C)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

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.

Waste treatment of containers/packagings

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

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

ADR/RID	UN3260
IMDG-Code	UN3260
ICAO-TI	UN3260

14.2 UN proper shipping name

ADR/RID	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), potassium hydrogensulphate

14.3 Transport hazard class(es)

ADR/RID	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

ADR/RID	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards -

14.6 Special precautions for user -

14.7 Maritime transport in bulk according to IMO instruments -

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Additional information

Particulars in the transport document	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., (contains: pentapotassium bis(peroxymonosulphate)bis(sulphate), potassium hydrogensulphate), 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

Emergency Action Code	2X

International Maritime Dangerous Goods Code (IMDG) Additional information

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	B
Segregation group	1 - Acids.

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

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)

Seveso Directive

Not assigned.

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

None of the ingredients are listed.

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.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1	Registration number (REACH): not relevant (mixture)	-
1.3	e-mail (competent person): sdb@csb-online.de Please do not use this e-mail adress to ask for the latest safety data sheet. For this purpose contact Melspring International B.V.	e-mail (competent person): sdb@csb-compliance.com Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact Melspring International B.V.
2.1	Additional information: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	-
2.2	-	Precautionary statements: change in the listing (table)
2.2	-	Supplemental hazard information: change in the listing (table)
2.2	Child-resistant fastening: yes	-
2.2	Tactile warning of danger: yes	-

Section	Former entry (text/value)	Actual entry (text/value)
2.2	Hazardous ingredients for labelling: Pentapotassium bis(peroxymonosulphate)bis(sulphate), Dipotassium peroxodisulphate	Hazardous ingredients for labelling: pentapotassium bis(peroxymonosulphate)bis(sulphate) potassium hydrogensulphate potassium persulphate
3.2	-	Hazardous ingredients: change in the listing (table)
8.1	-	Relevant DNELs of components of the mixture: change in the listing (table)
8.1	-	Relevant PNECs of components of the mixture: change in the listing (table)
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection.	Respiratory protection: In case of inadequate ventilation wear respiratory protection. P3 (filters at least 99,95 % of airborne particles, colour code: White).
14.2	Technical name (hazardous ingredients): Monopersulfate Compound	Technical name (hazardous ingredients): pentapotassium bis(peroxymonosulphate)bis(sulphate), potassium hydrogensulphate
14.8	Special provisions (SP): A3, 274	Special provisions (SP): A3

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (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
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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)
EINECS	European Inventory of Existing Commercial Chemical Substances

Abbr.	Descriptions of used abbreviations
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
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
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
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
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
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
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
Skin Irrit.	Irritant to skin

Abbr.	Descriptions of used abbreviations
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).
GB mandatory classification and labelling.

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

Classification procedure

Physical and chemical properties.
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.
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.

Responsible for the safety data sheet

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Disclaimer

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