

SureCure® 120

Version number: 2.0

SECTION 1: Identification

1.1 Product identifier

Trade name SureCure® 120
CAS number not relevant (mixture)

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

Relevant identified uses Chemicals for various applications

1.3 Details of the supplier of the safety data sheet

Hammond Lead Products Telephone: ++1-219-845-0031
 Hammond Group, Inc.
 2308 165th Street
 IN 46323 Hammond
 United States

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 Hammond Lead Products.

1.4 Emergency telephone number

Emergency information service 219-845-0031

Poison center		
Country	Name	Telephone
United States	CHEMTREC USA	(800) 424-9300

As above or next toxicological information centre.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.6	carcinogenicity	1B	Carc. 1B	H350
A.7	reproductive toxicity	1A	Repr. 1A	H360
A.7L	effects on or via lactation	L	Lact.	H362
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

for full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word danger

Pictograms

GHS07, GHS08



Hazard statements

- H302+H332** Harmful if swallowed or if inhaled.
- H317** May cause an allergic skin reaction.
- H319** Causes serious eye irritation.
- H350** May cause cancer.
- H360** May damage fertility or the unborn child.
- H362** May cause harm to breast-fed children.
- H373** May cause damage to organs (cardiovascular system) through prolonged or repeated exposure (if swallowed).

Precautionary statements

- P201** Obtain special instructions before use.
- P202** Do not handle until all safety precautions have been read and understood.
- P260** Do not breathe dusts or mists.
- P263** Avoid contact during pregnancy/while nursing.
- P270** Do not eat, drink or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.

Precautionary statements

P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear eye protection/face protection.
P281	Wear personal protective equipment/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental hazard information

For professional users only.

Hazardous ingredients for labelling

pentalead tetraoxide sulfate
tin(II) sulphate

2.3 Other hazards

There is no additional information.

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	Specific Conc. Limits	M-Factors
pentalead tetraoxide sulfate	CAS No 12065-90-6	≥ 90	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Carc. 1B / H350 Repr. 1A / H360Df Lact. / H362 STOT RE 1 / H372		IARC: 2A IOELV	Repr. 2; H361: C ≥ 2.5 % STOT RE 1; H372: C ≥ 0.5 %	M-factor (acute) = 10.0

Hazardous ingredients							
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
tin(II) sulphate	CAS No 7488-55-3	1 – < 5	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT SE 3 / H335 STOT RE 2 / H373				
antimony tri-oxide	CAS No 1309-64-4 RTECS No CC5650000	0,1 – < 1	Carc. 2 / H351		IARC: 2B		

Notes

IARC: IARC group 2A: probably carcinogenic to humans (International Agency for Research on Cancer)
2A:

IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)
2B:

IOELV: Substance with a community indicative occupational exposure limit value

The specific exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of first- aid measures

General notes

Take off immediately all contaminated clothing.

IF exposed or concerned: Get medical advice/attention.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Provide fresh air.

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.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Get medical advice/attention.

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.

Following ingestion

Rinse mouth immediately and drink plenty of water.
Induce vomiting when the affected person is not unconscious.
Call a physician in any case.

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: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

sulfur oxides (SO_x), metal oxide smoke, toxic

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.

Special protective equipment for firefighters

self-contained breathing apparatus (SCBA)

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.

Control of dust.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

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 vapors/dust/aerosols/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.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

take up mechanically

Advices on how to clean up a spill

Take up mechanically.

Collect spillage.

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

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Specific notes/details

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

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Avoid contact during pregnancy and while nursing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Store in a dry place. Store in a closed container.

Keep cool.

General rule

Store locked up.

Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

Provision of sufficient ventilation.

Packaging compatibilities

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

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
US	lead, inorganic compounds		PEL (CA)		0.05			df, Pb	Cal/OSHA PEL
US	lead, inorganic compounds		PEL		0.05			Pb	29 CFR 1910.1000
US	lead compounds		REL		0.05			Pb, appx-C	NIOSH REL
US	tin, inorganic compounds (except oxides)		PEL		2			Sn	29 CFR 1910.1000
US	tin, inorganic compounds		PEL (CA)		2			ex-SnH ₄ , Sn	Cal/OSHA PEL
US	tin, inorganic compounds		REL		2 (10 h)			Sn	NIOSH REL
US	antimony compounds	1309-64-4	PEL (CA)		0.5			Sb	Cal/OSHA PEL
US	antimony compounds	1309-64-4	REL		0.5 (10 h)			Sb	NIOSH REL
US	antimony compounds	1309-64-4	PEL		0.5			Sb	29 CFR 1910.1000

Notation

appx-C	Appendix C - Supplementary Exposure Limits
df	as dust and fumes
exSnH ₄	except SnH ₄
Pb	calculated as Pb (lead)
Sb	calculated as Sb (antimony)
Sn	calculated as Sn (tin)
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)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
tin(II) sulphate	7488-55-3	DNEL	1.375 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
tin(II) sulphate	7488-55-3	DNEL	0.39 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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
tin(II) sulphate	7488-55-3	DNEL	0.195 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
tin(II) sulphate	7488-55-3	DNEL	0.195 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
antimony trioxide	1309-64-4	DNEL	0.315 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
antimony trioxide	1309-64-4	DNEL	67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
antimony trioxide	1309-64-4	DNEL	0.095 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
antimony trioxide	1309-64-4	DNEL	33.5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
antimony trioxide	1309-64-4	DNEL	33.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
pentalead tetraoxide sulfate	12065-90-6	PNEC	2.4 µg/l	freshwater
pentalead tetraoxide sulfate	12065-90-6	PNEC	3.3 µg/l	marine water
pentalead tetraoxide sulfate	12065-90-6	PNEC	100 µg/l	sewage treatment plant (STP)
pentalead tetraoxide sulfate	12065-90-6	PNEC	186 mg/kg	freshwater sediment
pentalead tetraoxide sulfate	12065-90-6	PNEC	168 mg/kg	marine sediment
pentalead tetraoxide sulfate	12065-90-6	PNEC	212 mg/kg	soil
tin(II) sulphate	7488-55-3	PNEC	0.9 mg/l	freshwater
tin(II) sulphate	7488-55-3	PNEC	58 mg/kg	freshwater sediment
antimony trioxide	1309-64-4	PNEC	0.135 mg/l	freshwater
antimony trioxide	1309-64-4	PNEC	0.013 mg/l	marine water
antimony trioxide	1309-64-4	PNEC	3.05 mg/l	sewage treatment plant (STP)
antimony trioxide	1309-64-4	PNEC	13.4 mg/kg	freshwater sediment

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
antimony trioxide	1309-64-4	PNEC	2.68 mg/kg	marine sediment
antimony trioxide	1309-64-4	PNEC	44.3 mg/kg	soil

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
plastic and rubber	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

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

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.

Other protection measures

Protective clothing for use against solid particulates.

Respiratory protection

In case of inadequate ventilation wear 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

Appearance

Physical state	solid
Form	powder
Color	colourless to yellowish
Odor	Nearly odorless
Odor threshold	these information are not available

Other safety parameters

pH (value)	these information are not available
Melting point/freezing point	these information are not available
Initial boiling point and boiling range	these information are not available
Flash point	not applicable
Evaporation rate	these information are not available
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds	not determined
Vapor pressure	these information are not available
Density	>7 g/cm ³ at 20 °C
Vapor density	these information are not available
Relative density	>7 at 20 °C (water = 1)

Solubility(ies)

Water solubility	not miscible in any proportion
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Partition coefficient

n-octanol/water (log KOW)	these information are not available
Auto-ignition temperature	not relevant (Solid matter)
Decomposition temperature	these information are not available

Viscosity

Kinematic viscosity	not relevant (solid matter)
Dynamic viscosity	not relevant (solid matter)
Explosive properties	not explosive

Oxidizing properties shall not be classified as oxidizing

9.2 Other information

None

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.

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

Classification procedure

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

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
pentalead tetraoxide sulfate	12065-90-6	oral	500 mg/kg
pentalead tetraoxide sulfate	12065-90-6	inhalation: dust/mist	1.5 mg/l/4h
tin(II) sulphate	7488-55-3	inhalation: dust/mist	2 mg/l/4h

Acute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method
pentalead tetraoxide sulfate	12065-90-6	oral	LD50	>5,000 mg/kg	rat	OECD Guideline 401
pentalead tetraoxide sulfate	12065-90-6	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 423
pentalead tetraoxide sulfate	12065-90-6	dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402
tin(II) sulphate	7488-55-3	oral	LD50	2,207 mg/kg	rat	OECD Guideline 401
tin(II) sulphate	7488-55-3	inhalation: dust/mist	LC50	2 mg/l/4h	rat	OECD Guideline 436
antimony trioxide	1309-64-4	oral	LD50	>34,600 mg/kg	rat	
antimony trioxide	1309-64-4	inhalation: dust/mist	LC50	>5.2 mg/l/4h	rat	
antimony trioxide	1309-64-4	dermal	LD50	>8,300 mg/kg	rabbit	

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

May cause cancer.

IARC Monographs

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Number
pentalead tetraoxide sulfate		2A	
antimony trioxide	1309-64-4	2B	

Legend

- 2A Probably carcinogenic to humans
- 2B Possibly carcinogenic to humans

National Toxicology Program (United States)

National Toxicology Program (United States): Report on Carcinogens			
Name of substance	CAS No	Classification	Number
pentalead tetraoxide sulfate		Reasonably anticipated to be human carcinogens	11th Report on Carcinogens

OSHA Carcinogens

29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)		
Name of substance	CAS No	Type of registration
pentalead tetraoxide sulfate		GI §1910.1025, SE §1915.1025, CI §1926.62

Legend

- CI §1926.62 Construction Industry (29 CFR 1926.62)§us_oshacarc_1_2017
- GI §1910.1025 General Industry (29 CFR 1910.1025)§us_oshacarc_1_2017
- SE §1915.1025 Shipyard Employment (29 CFR 1915.1025)§us_oshacarc_1_2017

Reproductive toxicity

- May damage the unborn child.
- May damage fertility.
- May cause harm to breast-fed children.

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

May cause damage to organs (cardiovascular system) through prolonged or repeated exposure (if swallowed).

Specific target organ toxicity - repeated exposure		
Hazard category	Target organ	Exposure route
2	cardiovascular system	if swallowed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
pentalead tetraoxide sulfate	12065-90-6	LC50	107 µg/l	rainbow trout (Oncorhynchus mykiss)	96 h
pentalead tetraoxide sulfate	12065-90-6	LC50	73.56 µg/l	Ceriodaphnia dubia (water flea)	48 h
pentalead tetraoxide sulfate	12065-90-6	ErC50	20.5 µg/l	algae (pseudokirchneriella subcapitata)	72 h
tin(II) sulphate	7488-55-3	LC50	50 mg/l	(top) predators	96 h
tin(II) sulphate	7488-55-3	EC50	50 mg/l	algae	48 h
antimony trioxide	1309-64-4	LC50	14.4 mg/l	fish	96 h
antimony trioxide	1309-64-4	ErC50	>36.6 mg/l	algae	72 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Aquatic toxicity (chronic) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
pentalead tetraoxide sulfate	12065-90-6	NOEC	7.6 µg/l	Ceriodaphnia dubia (water flea)		ECHA	7 d

Aquatic toxicity (chronic) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
pentalead tetraoxide sulfate	12065-90-6	growth (Eb-Cx) 10%	1.7 µg/l	Ceriodaphnia dubia (water flea)		ECHA	7 d
tin(II) sulphate	7488-55-3	EC50	14 mg/l	algae		ECHA	4 h
tin(II) sulphate	7488-55-3	NOEC	14 mg/l	algae		ECHA	8 d
tin(II) sulphate	7488-55-3	NOEC	~4 mg/l	zebra fish (Danio rerio)	OECD Guideline 212	ECHA	d
tin(II) sulphate	7488-55-3	LOEC	~8 mg/l	zebra fish (Danio rerio)	OECD Guideline 212	ECHA	d
antimony trioxide	1309-64-4	LC50	4.77 mg/l	aquatic invertebrates		ECHA	21 d
antimony trioxide	1309-64-4	EC50	3.82 mg/l	aquatic invertebrates		ECHA	21 d
antimony trioxide	1309-64-4	NOEC	4.5 mg/l	fish		ECHA	28 d
antimony trioxide	1309-64-4	LOEC	9.31 mg/l	fish		ECHA	28 d

12.2 Persistence and degradability

Biodegradation

Data are not available.

Persistence

Data are not available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

12.4 Mobility in soil

Data are not 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 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 3 Keep away from drains, surface and ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used.
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	3077
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Technical name (hazardous ingredients)	pentalead tetraoxide sulfat
14.3	Transport hazard class(es)	
	Class	9
14.4	Packing group	III
14.5	Environmental hazards	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment)	pentalead tetraoxide sulfat
14.6	Special precautions for user	
	There is no additional information.	
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.	
14.8	<u>Information for each of the UN Model Regulations</u>	

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Transport of dangerous goods by road or rail (49 CFR US DOT)

Index number 3077
Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Particulars in the shipper's declaration

UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: pentalead tetraoxide sulfate), 9, III

Class 9
Packing group III
Danger label(s) 9, fish and tree



Environmental hazards yes
(hazardous to the aquatic environment)

Special provisions (SP) 8, 146, 335, A112, B54, B120, IB8, IP3, N20, T1, TP33

ERG No 171

International Maritime Dangerous Goods Code (IMDG)

UN number 3077
Proper shipping name UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (pentalead tetraoxide sulfate), 9, III

Class 9
Marine pollutant yes
(hazardous to the aquatic environment)

Packing group III
Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1


Limited quantities (LQ) 5 kg

EmS F-A, S-F

Stowage category A

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International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3077
Proper shipping name	UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: pentalead tetraoxide sulfate), 9, III
Class	9
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree
	
Special provisions (SP)	A97, A158, A179, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
antimony trioxide	1309-64-4		1	1000 (454)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

none of the ingredients are listed

New Jersey Worker and Community Right to Know Act

Right to Know Hazardous Substance List			
Name acc. to inventory	CAS No	Remarks	Classifications
antimony trioxide	1309-64-4		CA.

Legend

CA Carcinogenic

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
antimony trioxide (diantimony trioxide)	1309-64-4		cancer

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System.
American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	0	material that will not burn under typical fire conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2018-09-20

Date of last revision: 2019-04-04.

Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
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
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
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
IARC	International Agency for Research on Cancer
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
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
Lact.	Effects on or via lactation
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT).

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 chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H360Df	May damage the unborn child. Suspected of damaging, fertility.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs (cardiovascular system) through prolonged or repeated exposure (if swallowed).
H373	May cause damage to organs (cardiovascular system) through prolonged or repeated exposure (if swallowed).

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.