



Octoguard SL2

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 21/04/2015 Revision date: 10/09/2018 Supersedes: 30/08/2016 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : Octoguard SL2

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : For professional use only
Function or use category : Flame retardants and fire preventing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

TRCC Europe GmbH
Am Gut Baarking 12
46395 Bocholt - Germany
T +49 (0)2871 23476-0 (office hours)
europesales@trcc.com

1.4. Emergency telephone number

Emergency number : +49 (0) 2871 23476-0 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Carcinogenicity, Category 2 H351

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Warning
Hazardous ingredients : antimony trioxide
Hazard statements (CLP) : H351 - Suspected of causing cancer.
Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P308+P313 - IF exposed or concerned: Get medical advice.
P405 - Store locked up.
EUH-statements : EUH208 - Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable



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3.2. Mixtures

Comments

: Sb₂O₃ as powder is classified under Regulation (EC) No. 1272/2008 (CLP) as Carcinogenicity Cat 2. Once inextractable compounded within a polymer matrix, it cannot generate airborne dust. (cfr. IAOIA). This TRCC compound is a liquid (Sb₂O₃ is inextractable compounded), so there is no inhalation risk of the Sb₂O₃ powder related to the TRCC compound. Therefore the carcinogenic effect is reduced to zero.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
antimony trioxide	(CAS-No.) 1309-64-4 (EC-No.) 215-175-0 (EC Index-No.) 051-005-00-X (REACH-no) 01-2119475613-35	10 - 25	Carc. 2, H351
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0,01	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(C >= 0,05) Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: None, to our knowledge.
Explosion hazard	: None, to our knowledge.
Reactivity in case of fire	: pressure rise and possible bursting of container.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire	: Use a self-contained breathing apparatus and also a protective suit.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not dispose of fire-fighting water in the environment. Dispose of in accordance with relevant local regulations.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Reduce/avoid exposure and/or contact.

6.1.1. For non-emergency personnel

Protective equipment : Wear proper protective equipment.

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Try to stop release.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid spilling the product, as this might cause falls.

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight. Heat sources.

Maximum storage period : 6 months

Storage temperature : 0 - 30 °C

7.3. Specific end use(s)

No special requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

antimony trioxide (1309-64-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	281 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,5 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,113 mg/l
PNEC aqua (marine water)	0,0113 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	7,8 mg/kg dwt
PNEC sediment (marine water)	1,56 mg/kg dwt
PNEC (Soil)	
PNEC soil	37 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2,55 mg/l

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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective goggles.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white.
Odour	: characteristic.
Odour threshold	: No data available
pH	: > 8,5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: < 0 °C
Boiling point	: > 100 °C
Flash point	: > 100 °C
Critical temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,7 - 1,8 kg/l
Solubility	: product is dispersable in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1500 - 2500 mPa.s (Brookfield RV-DVE, sp 6, 100 rpm)
Explosive properties	: Product is not explosive.
Oxidising properties	: Not applicable (aqueous non combustible product).
Explosive limits	: No data available

9.2. Other information

No additional information available



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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

antimony trioxide (1309-64-4)

LD50 oral rat > 20000 mg/kg

LD50 dermal rabbit > 8300 mg/kg

LC50 inhalation rat (Vapours - mg/l/4h) > 5,2 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: > 8,5Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: > 8,5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified (Contains no ingredient listed as a mutagen)

Carcinogenicity : Suspected of causing cancer.

antimony trioxide (1309-64-4)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified (Contains no ingredient listed as a reproductive toxic)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

antimony trioxide (1309-64-4)

NOAEL (oral, rat, 90 days) 1686 mg/kg bodyweight/day

NOAEC, Inhalation 0.51 mg/m³

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

LC50 fish 1 0,167 mg/l (96h)

EC50 Daphnia 1 0,097 mg/l (48h)

ErC50 (algae) 10 - 20 mg/l (48h)



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antimony trioxide (1309-64-4)	
LC50 fish 1	14,4 mg/l (96 h) freshwater fish
LC50 fish 2	6,9 mg/l (96 h) marine fish
LC50 other aquatic organisms 1	1,77 mg/l (96 h)
ErC50 (algae)	36,6 mg/l (72 h)
ErC50 (other aquatic plants)	25,5 mg/l 4 days
NOEC chronic fish	1,13 mg/l (28 days) freshwater fish
NOEC chronic crustacea	1,74 mg/l (21 days)
NOEC chronic algae	2,11 mg/l (72 h)
LOEC, (28 days) freshwater fish	2.31 mg/l
LOEC, aquatic invertebrates	3.13 mg/l (21 days)
LOEC, algae	mg/l (72 Hours)
NOEC, microorganisms	2.55 mg/l (Chronic)
NOEC, midge	78 mg/Kg ((14 days))
NOEC, soil invertebrates	999 mg/Kg
NOEC, plants	999 mg/Kg
NOEC, Soil, microorganisms	2930 mg/Kg

12.2. Persistence and degradability

Octoguard SL2	
Persistence and degradability	Not established.

antimony trioxide (1309-64-4)

Persistence and degradability	Does not apply to inorganic substances.
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12.3. Bioaccumulative potential

Octoguard SL2	
Bioaccumulative potential	Not established.

antimony trioxide (1309-64-4)

Bioconcentration factor (BCF REACH)	40
Bioaccumulative potential	not bioaccumulable.

12.4. Mobility in soil

Octoguard SL2	
Ecology - soil	No supplementary information available.

antimony trioxide (1309-64-4)

Log Koc	2,07
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : No supplementary information available

Transport by sea

Transport regulations (IMDG) : No supplementary information available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list $\geq 0,1 \%$ / SCL

Contains no REACH Annex XIV substances in concentration \geq to the Annex XIV limit values

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed



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Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product
 Pregnant/breastfeeding women working with the product must not be in direct contact with the product
 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
ATE	Acute Toxicity Estimate

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Carc. 2	H351	Calculation method
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SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product