Printing date 15.02.2022

CHEMICALS, INC.

Revision: 15.02.2022

nting date 15.02.2022	<i>Revision:</i> 15.02.2022
SECTION 1: Identification of the substance/mixture and of	the company/undertaking
1.1 Product identifier	
Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM	
 Item number: 97-0380 CAS Number: 1309-64-4 EC number: 215-175-0 Index number: 051-005-00-X 1.2 Relevant identified uses of the substance or mixture and uses advise 	d against
No further relevant information available.	5
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com 	
• Further information obtainable from: Technical Department	
• 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600	
SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
Acute Tox. 3 H311 Toxic in contact with skin.	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS08 health hazard	
<i>Carc. 2</i> H351 Suspected of causing cancer.	
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. • Hazard pictograms 	
GHS06 GHS08	
GHS06 GHS08 • Signal word Danger	(Contd. on page 2

Printing date 15.02.2022

Revision: 15.02.2022

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

Har and datamat	
	ining components of labelling:
antimony trioxia	
Hazard stateme	
H301 + H311 + H	1331 Toxic if swallowed, in contact with skin or if inhaled.
H351	Suspected of causing cancer.
Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internation
1001	regulations.
2.3 Other hazar	8
	and vPvB assessment
PBT: Not applie	

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 1309-64-4 antimony trioxide
- · Identification number(s)
- EC number: 215-175-0
- *Index number:* 051-005-00-X

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

- *Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.*
- After inhalation:

Supply fresh air or oxygen; call for doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

(Contd. on page 3)

GB



Printing date 15.02.2022

Revision: 15.02.2022

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

(Contd. of page 2)

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1309-64-4 antimony trioxide

- WEL Long-term value: 0.5 mg/m³ as Sb
- *Additional information: The lists valid during the making were used as basis.*

(Contd. on page 4)

GB -



Decomposition temperature:

• Auto-ignition temperature:

• Explosive properties:

• Explosion limits: Lower:

· Vapour pressure:

Upper:

Revision: 15.02.2022

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

(Contd. of page 3) · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. *Immediately remove all soiled and contaminated clothing* Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. • Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eve protection: Safety glasses · 9.1 Information on basic physical and chemical properties **General Information** · Appearance: Form: Powder White Colour: · Odour: **Odourless** • Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/freezing point: 656 °C Initial boiling point and boiling range: 1.550 °C Not applicable. · Flash point: Not determined. · Flammability (solid, gas): · Ignition temperature:

> Not determined. Not determined.

Not determined.

Not determined. Not applicable.

Product does not present an explosion hazard.

(Contd. on page 5)

Printing date 15.02.2022

Revision: 15.02.2022

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

		(Contd. of page
Density at 20 °C:	5.67 g/cm ³	
Bulk density at 20 °C:	1.100 kg/m ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VÕC (EC)	0.00 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Toxic if swallowed, in contact with skin or if inhaled.
- · LD/LC50 values relevant for classification:

Oral LD50 >34600 mg/kg (rat)

1309-64-4 antimony trioxide

Oral LD50 >20000 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.

(Contd. on page 6)

GB



Printing date 15.02.2022

Revision: 15.02.2022

(Contd. of page 5)

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport informe	ition
· 14.1 UN-Number · ADR, IMDG, IATA	UN1549
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1549 ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
6	
· Class	6
· Label	6.1
·IATA	
6	
· Class	6.1 Toxic substances.
	(Contd. on page



of page 6)

Safety data sheet according to 1907/2006/EC, Article 31

.02.2022

Printing date 15.02.2022	Revision:
Frade name: Antimony(III) oxide, elec. gr.	(99.999%-Sb) PURATREM
	(Cor
·Label	6.1
· 14.4 Packing group · ADR, IMDG, IATA	111
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user EMS Number: Stowage Category 	Not applicable. F-A,S-A A
• 14.7 Transport in bulk according to An Marpol and the IBC Code	nex II of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· IMDG · Limited quantities (LQ)	5kg

Code: E1

N.O.S., 6.1, III

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

UN 1549 ANTIMONY COMPOUND, INORGANIC, SOLID,

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

• Excepted quantities (EQ)

· UN "Model Regulation":

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category H2 ACUTE TOXIC

SECTION 15: Regulatory information

• Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

• Abbreviations and acronvms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

(Contd. on page 8)

GB

Printing date 15.02.2022

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CHEMICALS, INC.

Revision: 15.02.2022

Trade name: Antimony(III) oxide, elec. gr. (99.999%-Sb) PURATREM

(Contd. of page 7)

GB

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Carc. 2: Carcinogenicity – Category 2