

Section 1 – Identification of the substance / mixture and of the company / undertaking

Identification of the substance or mixture / product identifier

Commercial Name	Antimony Trioxide
Composition	Sb ₂ O ₃ Antimony Trioxide
Registration No. (ECHA):	
CAS No.	1309-64-4
EINECS, ELINCS No.	215-175-0
Index No.	051-005-00-X
Uses	Flame retardants Pure chemical
Relevant identified uses of the substance or mixture	Not Available
Uses advised against	Not Available
Supplier	Simba Materials Limited t/a CTM Potters Supplies Unit 7-8, Broomhouse Lane Ind Estate, Edlington, Doncaster DN12 1EQ Unit 10A, Millpark Industrial Estate, White Cross Road, Woodbury Salterton, EX5 1EL T +44 (0)1709 770801 Doncaster T +44 (0)1395 233077 Exeter
Emergency Telephone	Carechem 24 (24 hour chemical emergency advice) Tel: 01865 407 333

Section 2 – Hazard Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Carc.

Hazard category 2

Hazard statement H351-Suspected of causing cancer**2.1.2 Classification according to Directives 67/548/EEC and 1999/45/ec (including amendments).**
40 Limited evidence of a carcinogenic effect.**2.2 Label elements****2.2.1 Labelling according to Regulation (EC) 1272/2008 (CLP)**

Antimony trioxide

CAS 1309-64-4, Index: 051-005-00-x, EC: 215-175-0**WARNING****HAZARD STATEMENT** H351-Suspected of causing cancer**PREVENTION**P201 . Obtain special instructions before use
P202 . Do not handle until all safety precautions have been read and understood
P281 . Use personal protective equipment as required**RESPONSE**

P308 and P313 . If exposed or concerned GET MEDICAL ADVICE / ATTENTION

DISPOSAL

P501 . Dispose of contents and container in accordance with all local, regional, national and international regulations

Section 3 – Composition / Information on Ingredients**3.1 Substance** Antimony Trioxide**Registration No. (ECHA)** -**Index No.** 051-005-00-X**EINECS, ELINCS No.** 215-175-0**Content %****Symbol****R-phrases** 40 (Carc. Cat. 3)**Classification categories / Indications of Danger** Carcinogen**Hazard class / category** **Hazard statement**
Carc. / 2 H351

3.2 Mixture (Not Applicable)**Contamination****Lead Oxide****Registration No. (ECHA)**

Index No. 082-001-00-6

EINECS, ELINCS No. 215-267-0

Content % 0.1 -<0.5

Symbol Xn/N

R-phrases 61 (Repr. Cat.1)-20/22-33-50-53-62 (Repr.Cat.3)

**Classification categories /
Indications of Danger** Dangerous for the environment
Harmful
Toxic to reproduction

Hazard class / category	Hazard Statement
Repr./1A	H360Df
Acute Tox./4	H332
Acute Tox./4	H302
STOT RE/2	H373
Aquatic Acute/1	H400
Aquatic Chronic/1	H410

For complete wording of the R-phrases / H-phrases (GHS/CLP), please refer to Section 16.

Section 4 – First Aid Measures

Description of first aid measures

Inhalation Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

The following may occur:

- Irritant to mucosa of the nose and throat
- Coughing
- Respiratory distress
- Dizziness
- Headaches

Skin Contact Wash the affected area thoroughly with copious amounts of running water.
Remove contaminated clothing immediately.
If skin irritation occurs (redness etc.) consult a doctor.

The following may occur:

Irritation of the skin

With long-term contact:

Dermatitis (skin inflammation)

Eye Contact Wash the eyes thoroughly, for several minutes, using copious amounts of water.
Seek medical help if necessary.

The following may occur: Irritation of the eyes

Ingestion Consult doctor immediately.
Give person copious amounts of water to drink. Induce vomiting.
Keep SDS available.

The following may occur:

- a. Nausea
- b. Vomiting
- c. Kidney damage

Antimony compounds :

- a. Drop in blood pressure
- b. Disturbed heart rhythm
- c. Liver damage
- d. Muscle pains
- e. Respiratory distress

4.2 Most important symptoms and effects, both acute and delayed Not Available

4.3 Indication of any immediate medical attention and special treatment needed Not Checked

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media Adapt to the nature and extent of fire.
Product is not combustible.

Unsuitable extinguishing media Not Checked

5.2 Special hazards arising from the substance or mixture combustion products, resulting gases

In case of fire the following can develop: Dangerous vapours

5.3 Advice for fire-fighters

Protective respirator with independent air supply.
Full protection, if necessary.
Dispose of contaminated extinction water according to official regulations.
In case of fire and / or explosion do not breathe fumes.

Section 6 – Accidental Release Measures

Please refer to point 13. For personal protection, please refer to point 8.

- 6.1 Personal Precautions:** Ensure sufficient supply of fresh air.
 Avoid inhalation.
 Avoid contact with eyes or skin.
 Avoid generation and build-up of dust.
- 6.2 Environmental Precautions** Prevent from entering drainage systems.
 If leakage occurs, dam up.
 Prevent surface and ground-water infiltration, as well as ground penetration.
- 6.3 Methods for cleaning up** Collect mechanically and dispose of according to point 13.
 Avoid build-up of dust.

Section 7 – Handling and Storage

7.1 Handling

Tips for safe handling:

- a. See section 6.1
- b. Ensure good ventilation
- c. Avoid contact with eyes or skin
- d. Suction measures at the workplace or on the processing machines required
- e. Avoid build-up of dust
- f. Do not breathe dust
- g. Eating, drinking, smoking, as well as food storage is prohibited in the work-room.
- h. Wash hands before breaks and at end of work
- i. Observe directions on label and instructions for use
- j. Use working methods according to operating instructions

7.2 Storage

Requirements for storage rooms and containers:

- a. Not to be stored in gangways or stairwells
- b. Store product closed and only in original packing

Special storage conditions:

- a. See point 10
- b. Protect against moisture and store closed
- c. Protect from direct sunlight and warming

Section 8 – Exposure Controls / Personal Protection

8.1 Exposure limit values

Chemical Name:

WEL-TWA: 0.5mg/m3 (Antimony and Antimony compounds except stibine (as Sb))
 BMGV: -

Antimony Trioxide Content %

WEL-STEL: -
 Other information: -

Chemical Name:

WEL-TWA: 0.15mg/m3 (Pb, inorganic compounds, EC)
 BMGV: See biological limits for lead (EH40), 70 microns Pb/100ml blood (Lead and its ionic compounds, EC)

Lead Oxide Content %

WEL-STEL: - 0.1 - <0.5
 Other information: -

Chemical Name:

WEL-TWA: 10mg/m3 (inhal. Dust), 4mg/m3 (respir. Dust)
 BMGV: -

General dust limit Content %

WEL-STEL: -
 Other information: -

WEL-TWA = Workplace Exposure Limit . long-term exposure limit (8 hour TWA (= time weighted average) reference period) EH40.

WEL-STEL = Workplace Exposure Limit . short-term exposure limit (15 minute reference period).

AGW = Workplace Limit Value.

BGW = Biological Limit Value.

BMGV = Biological Monitoring Guidance Value EH40.

Other information:

Sen = capable of causing asthma

Sk = can be absorbed through the skin

Carc = capable of causing cancer and / or heritable genetic damage

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is sufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at the end of work.

Keep away from food, drink and animal feedstuffs.

Respiratory protection:

Breathing mask with fine dust filter necessary (EN 143), code colour white.

Filter P 3 (EN 143), code colour white.

Hand protection:

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm: 0.11.

Permeation time (penetration time) in minutes: >480.

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN ISO 20345), long-sleeved protective working garments.

Additional information on hand protection . no tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations, the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact

breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

Not Available

Section 9 – Physical and Chemical Properties**9.1 General Information**

Physical state	Solid
Colour	White
Odour	Odourless

9.2 Important health, safety and environmental information

pH value undiluted	Not detected
Boiling Point (°C)	1456°C
Melting Point (°C)	656°C
Flash Point (°C)	Not Applicable
Minimum limit of explosion	Not Applicable
Max limit of explosion	Not Applicable
Vapour Pressure:	1.3 mbar / 574°C
Density (g/ml)	5.2 . 5.8
Bulk Density	800-1300 kg/m ³
Water Solubility:	Insoluble

Section 10 – Stability and Reactivity

Conditions to Avoid	See point 7 Protect from humidity Strong heat
Materials to Avoid	See point 7 Aluminium Avoid contact with other chemicals Halogenated compounds Hydrogen gas Reducing agent Metals in powder form Perchloric acid

Hazardous decomposition products	See point 5.3
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Section 11 – Toxicological Information**Further information***The following may occur:*

Irritation of the eyes
Irritation of the skin

With long-term contact:

Dermatitis (skin inflammation)
Inhalation: Irritant to mucosa of the nose and throat
Ingestion: Kidney damage
Antimony compounds in general: Liver damage

Antimony Trioxide					
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rat	
Acute toxicity, by dermal route					n.d.a
Acute toxicity, by inhalation					n.d.a
Skin irritation					n.d.a
Eye irritation				Rabbit	Mild irritant, References
Respiratory tract irritation					n.d.a
Sensitisation					n.d.a
Carcinogenicity					Yes
Mutagenicity					n.d.a
Reproductive toxicity					n.d.a
Symptoms					Respiratory distress, drop in blood pressure, heart/circulatory disorders, disturbed heart rhythm, coughing, headaches, cramps, gastrointestinal disturbances, stomach pain, muscle pains, muscle weakness, mucous membrane irritation, dizziness, nausea and vomiting.

Lead Oxide					
Acute toxicity, by oral route	LD50	>10000	mg/kg	Rat	Does not conform with EU classification
Acute toxicity, by dermal route					n.d.a
Acute toxicity, by inhalation					n.d.a
Skin irritation				Rabbit	Not irritant
Eye irritation				Rabbit	Not irritant
Respiratory tract irritation					n.d.a
Sensitisation					n.d.a
Carcinogenicity					n.d.a
Mutagenicity					n.d.a
Reproductive toxicity					n.d.a
Symptoms					Unconsciousness, cramps, stomach cramps, fatigue, muscle pains, shock, nausea, and vomiting

Section 12 – Ecological Information

Antimony Trioxide							
Biodegradability							Not relevant for inorganic substances
Bioaccumilation							n.d.a
Toxicity to fish	LC50	96h	>1000	mg/l	(Brachydaniorerio)	OECD 203	
Toxicity to daphina	EC50	48h	>1000	mg/l	(Daphnia magna)	OECD 202	
Toxicity to algae	IC50	72h	67.00	mg/l	(Selenastrum capricornutum)	OECD 201	References
Mobility in soil							n.d.a
Results of PBT assessment							n.d.a
Other adverse effects							n.d.a

Lead Oxide							
Biodegradability							n.d.a
Bioaccumilation							n.d.a
Toxicity to fish							n.d.a
Toxicity to daphina							n.d.a
Toxicity to algae							n.d.a
Mobility in soil							n.d.a
Results of PBT assessment							n.d.a
Other adverse effects							n.d.a

Section 13 – Disposal Considerations**13.1 For the material / preparation / residue**

EC disposal code no. The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

(2001/118/EC, 2001/119/EC, 2001/573/EC).

06 03 99 wastes not otherwise specified.

06 03 16 metallic oxides other than those mentioned in 06 03 15.

Recommendation:

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

13.2 For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Section 14 – Transport Information**General statements**

UN Number Not Applicable

Road / rail transport (ADR/RID)

Class / packing group Not Applicable

Classification code Not Applicable

LQ Not Applicable

Tunnel restriction code Not Applicable

Transport by sea

IMDG code Not Applicable (class / packing group)

Marine pollutant Not Applicable

Transport by air

IATA Not Applicable (class / secondary danger / packing group)

Additional information

Non-dangerous material according to Transport Regulations

Section 15 – Regulatory Information

Classification and labelling see point 2.

Observe restrictions: YES

Observe law on protection of expectant mothers

Observe youth employment law

Regulation (EC) No. 1907/2006, Annex II

Section 16 – Other Information

These details refer to the product as it is delivered.

Revised points: 3,8

The following phrases represent the prescribed R-phrases / H-phrases (GHS / CLP) for the ingredients (designated in point 3):

40 Limited evidence of carcinogenic effect.

- 61 May cause harm to the unborn child.
- 20/22 Harmful by inhalation and if swallowed.
- 33 Danger of cumulative effects.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.

Carc = Carcinogenity

Repr. = Reproductive toxicity

Acute Tox. = Acute toxicity . inhalation

Acute Tox. = Acute toxicity . oral

STOT RE . Specific target organ toxicity . repeated exposure

Aquatic Acute = Hazardous to the aquatic environment . acute

Aquatic Chronic = Hazardous to the aquatic environment . chronic

H351 = suspected of causing cancer

The statements made here should describe the product with regard to the necessary safety precautions . they are not meant to guarantee definite characteristics, but they are based on our present and up-to-date knowledge.