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SAFETY DATA SHEET

ANTIMONY TRIOXIDE

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

1.1 Product identifier:	
CAS Number:	1309-64-4
EC number:	215-175-0
1.2 SYNONYMS:	• Antimony(III) oxide • Antimony oxide • Tris antimony oxide • Antimony(III)oxide

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Carcinogenicity (Category 2) Reproductive toxicity (Category 1B) Aquatic chronic toxicity (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H351:** Suspected of causing cancer. **H360F:** May damage fertility. **H400:** Very toxic to aquatic life. **H410:** Very toxic to aquatic life with long-lasting effects.
Precautionary Statements:	**P202:** Do not handle until all safety precautions have been read and understood. **P280:** Wear protective gloves, protective clothing, eye protection, and face protection.

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	P260: Do not breathe dust, fumes, gas, mist, vapors, or spray. **P271:** Use only outdoors or in a well-ventilated area. **P273:** Avoid release to the environment. **P301+P312:** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. **P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P308+P313:** IF exposed or concerned: Get medical advice/attention. **P391:** Collect spillage. **P405:** Store locked up. **P501:** Dispose of contents/container to hazardous or special waste collection point
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, lung damage, and may lead to chronic health effects with prolonged exposure.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, and potentially more severe toxic effects if consumed in large quantities.
Skin Contact:	may cause irritation, leading to redness, itching, or a rash, especially with prolonged or repeated exposure.
Eye contact:	can cause irritation, resulting in redness, tearing, and discomfort.
Chronic Exposure:	may lead to respiratory problems, lung damage, and an increased risk of cancer, as well as potential reproductive toxicity.

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Aggravation of pre-existing conditions:	may aggravate pre-existing respiratory conditions, such as asthma or bronchitis, and can worsen lung damage in individuals with compromised pulmonary function. Additionally, it may exacerbate reproductive health issues in those with existing fertility problems.

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

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms of acute exposure to antimony trioxide include respiratory irritation, gastrointestinal discomfort, and eye irritation, while delayed effects may involve lung damage, chronic respiratory issues, and an increased risk of cancer or reproductive toxicity.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	No data available
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.

6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Do not handle in flammable atmospheres.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Powder
Colour:	White
Odour:	Odourless
pH-value:	5

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Melting point/Melting range:	656°C
Boiling point/Boiling range:	1400°C
Flammability (solid, gaseous):	Non-flammable
Ignition temperature:	Not determined
Decomposition temperature:	>656°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	5.6 g/cm^3
Relative density:	5.6
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with-·water at 20 °C:	InSoluble
Partition coefficient:(n-octanol/water)	Not determined
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	high temperatures, moisture.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids, alkalis.
10.6 Hazardous decomposition products	Antimony oxide fumes, antimony pentachloride.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): no data available **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes mild skin irritation
Serious eye damage/irritation:	Causes eye irritation
Respiratory damage/irritation:	may cause respiratory irritation
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	May cause cancer
Reproductive toxicity:	Can cause damage to unborn child
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	May cause respiratory irritation
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not Biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	low bioaccumulative
12.4 Mobility in soil:	Immobile
12.5 Other adverse effects:	No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Mild Detergents, Industrial Cleaners, Wet Wipes, Vacuum Cleaner with HEPA Filter. **Avoid** using strong acids or oxidizing agents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3077
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	ANTIMONY TRIOXIDE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	9
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes, very harmful to aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

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SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.