

Material Safety Data Sheet / Safety Data sheet

Antimony Trisulphide

Section 1: Chemical Product Identifier and Synonyms

Product Name: Antimony Trisulphide

UN Number: 1549

CAS Number: 1345-04-6

Synonym: Antimony Trisulphide

Chemical Formula: Sb₂S₃

Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Antimony Trisulphide	1345-04-6	>95

Toxicology Data On Ingredients: Antimony Trisulphide LD50: Not Available. LC50: Not Available

Section 3: Hazards Identification

Potential Acute Health Effects:

May form combustible dust concentrations in air.

Harmful if swallowed.

Harmful in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Inhalation:

Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion:

Clean mouth with water. Get medical attention.

Section 5: Fire and Explosion Data

Flammability of the Product: Not available.

Auto-Ignition Temperature: Not available.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Not available.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Large Spill:

In case of large spill: keep upwind. In case of dust production: consider evacuation. Dust production: have neighbourhood close doors and windows.

Section 7: Handling and Storage

Precautions:

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Avoid breathing dust. Minimize dust generation and accumulation.

Storage:

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Powder Solid.

Odour: Odourless.

Taste: Not available.

Molecular Weight: 339.67 g/mole

Colour: Dark Grey.

pH (1% soln/water): Not available.

Boiling Point: 1150 °C / 2102 °F @ 760 mmHg

Melting Point: 550 °C / 1022 °F

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapour Density: Not available.

Volatility: Not available.

Odour Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal conditions.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Acids, Strong oxidizing agents

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Not available.

Section 11: Toxicological Information

Routes of Entry: Inhalation; Skin and eye contact

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat.
Coughing.

Redness of the eye tissue.

Other Toxic Effects on Humans: Vomiting. Nausea. Abdominal pain. Blood in stool. Bleeding of the gastrointestinal tract. Increased salivation. Myasthenia. Cramps/uncontrolled muscular contractions. Paralysis. Disturbances of heart rate. High arterial pressure

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

BOD5 and COD: Not available.

Products of Biodegradation: Not applicable.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Information

Waste Disposal: Dispose of in accordance with local regulations

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: Antimony Trisulphide UN Number: UN1549 PG: III

Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Regulations: Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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