Material Safety Data Sheet
Antimony Pentasulphide

Edition: 20/06/2018

1.1) Identification of substance/preparation and of the company undertaking

Material	Antimony Pentasulphide
Synonyms	Antimony Pentasulfide
CAS No	1315-04-4
Company	Inoxia Ltd 45.7 Dunsfold Park Stovolds Hill Cranleigh Surrey GU6 8TB Tel: 02032 909990 safety@inoxia.co.uk www.inoxia.co.uk

2) Hazard Identification

Classification:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal Word:

Danger

Hazard Statements:

Flammable solid
Harmful if swallowed
Harmful if inhaled
May cause respiratory irritation
Flammable solids Category 2

Precautionary Statements:

Prevention:

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Wear protective gloves/protective clothing/eye protection/face protection

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.

Fire:
In case of fire: Use CO2, dry chemical, or foam for extinction.
Storage:
Store in a well-ventilated place. Keep container tightly closed.
Store locked up
Disposal:
Dispose of contents/container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC): Toxic to aquatic life with long lasting effects

3) Composition

Chemical Name	EC-No	CAS-No.	Weight %	Classification (67/548/EEC)
Antimony Pentasulphide		1315-04-4	>95	

4) First Aid Measures

General Advice: If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms/effects: None reasonably foreseeable.
Notes to Physician: Treat symptomatically

5) Fire Fighting

Suitable Extinguishing Media : Foam. Carbon dioxide (CO2). Dry chemical.
Specific Hazards Arising from the Chemical:
Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products:
Sulfur oxides Antimony oxide.
Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6) Accidental Release

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation.
Avoid dust formation.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to

contaminate ground water system. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7) Handling/Storage

Handling: Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area.

8) Exposure Controls

Exposure Guidelines

Health: 2
Flammability: 2
Instability: 0
Physical hazards: N/A

Component ACGIH TLV OSHA PEL NIOSH IDLH

Antimony pentasulfide TWA: 0.5 mg/m3 (Vacated) TWA: 0.5 mg/m3 IDLH: 50 mg/m3 TWA: 0.5 mg/m3

Component Quebec Mexico OEL (TWA) Ontario TWAEV

Antimony pentasulfide TWA: 0.5 mg/m3 TWA: 0.5 mg/m3 TWA: 0.5 mg/m3

Legend

ACGIH - American Conference of Governmental Industrial Hygienists **OSHA** - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles.

Skin and body protection Long sleeved clothing.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9) Physical/Chemical Properties

Physical State	Powder Solid
Appearance	Orange
Odour	No information available

Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapour Pressure	No information available
vapour Density	Not applicable
Relative Density	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Sb2S5
Molecular Weight	403.82

10) Stability/Reactivity

Reactive Hazard: None known, based on information available
Stability : No information available.
Conditions to Avoid: Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials : Acids
Hazardous Decomposition Products: Sulfur oxides, Antimony oxide
Hazardous Polymerization : Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

11)

Acute Toxicity:
Toxicologically Synergistic Products
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Irritation: No information available
Sensitization: No information available
Carcinogenicity : The table below indicates whether each agency has listed any ingredient as a carcinogen.
Mutagenic Effects: No information available
Reproductive Effects: No information available.
Developmental Effects: No information available.
Teratogenicity: No information available.
STOT - single exposure : Respiratory system
STOT - repeated exposure: None known
Aspiration hazard: No information available
Symptoms / effects,both acute and delayed: No information available

Endocrine Disruptor Information: No information available

Other Adverse Effects: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12) Ecological Information

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability: Insoluble in water. May persist

Bioaccumulation/ Accumulation : No information available.

Mobility : Is not likely mobile in the environment due its low water solubility.

13) Disposal Consideration

Waste Disposal Methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14) Transport Information

DOT
UN-No: UN3179
Proper Shipping Name: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
Hazard Class :4.1
Subsidiary Hazard Class: 6.1
Packing Group: II

TDG
UN-No :UN3179
Proper Shipping Name: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
Hazard Class: 4.1
Subsidiary Hazard Class :6.1
Packing Group: II

IATA
UN-No : UN3179
Proper Shipping Name :Flammable solid, toxic, inorganic, n.o.s
Hazard Class :4.1
Subsidiary Hazard Class :6.1
Packing Group: II

IMDG/IMO
UN-No : UN3179
Proper Shipping Name : Flammable solid, toxic, inorganic, n.o.s
Hazard Class: 4.1
Subsidiary Hazard Class :6.1
Packing Group: II

15) Regulatory Information

Not available

16) Other Information

Not available

SDS EU (REACH Annex II)

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