

## **MATERIAL SAFETY DATA SHEET**

### **ANTIMONY SULPHIDE GOLDEN (EXTRA PURE) MSDS CAS: 1315-04-4**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** Antimony Sulphide Golden

**CAS#:** 1315-04-4

**C.I. No.:** Not available.

**Synonym:**

**Chemical Name:** Antimony Sulphide Golden

**Chemical Formula:** S<sub>5</sub>Sb<sub>2</sub>

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:**      **OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
Antimony Sulphide Golden	1315-04-4	100

**Toxicological Data on Ingredients:**

## Section 3: Hazards Identification

**Risk advice to man and the environment.**

**Highly Flammable**

## Section 4: First Aid Measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If Swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5: Fire and Explosion Data

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Use water spray to cool unopened containers.

## Section 6: Accidental Release Measures

**Personal precautions**

Avoid dust formation. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal..

## Section 7: Handling and Storage

### Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Storage

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

### Acids

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**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:** Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Crystals solid.)

**Odor** : Odorless.

**Taste** : Not available.

**Molecular Weight** : 76.12g/mole

**Color** : Yellow orange powder.

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

**Boiling Point** : Not available.

**Melting Point** : 149.6°C (301.3°F).

**Flash Point** : Not available.

**Critical Temperature** : Not available.

## Section 9: Physical and Chemical Properties (continued)

<b>Specific Gravity</b>	: 1.305 (Water = 1)
<b>Vapor Pressure</b>	: Not applicable
<b>Vapor Density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor Threshold</b>	: Not available.
<b>Water/Oil Dist. Coeff.</b>	: Not available
<b>Ionicity (in Water)</b>	: Not available.
<b>Dispersion Properties</b>	: See solubility in water, Acetone
<b>Solubility</b>	: Easily soluble in cold water, hot water. Soluble in acetone. Soluble in ammonia, and alcohol. Practically insoluble in chloroform, and ethyl acetate.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials

**Incompatibility with various substances:** Not available.

**Corrosivity:** Extremely corrosive in presence of copper, brass, iron. Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Incompatible with  $\text{KClO}_3$  and mixtures with  $\text{Pb}(\text{NO}_3)_2$

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 500 mg/kg [Guinea pig].

**Chronic Effects on Humans:** May cause damage to the following organs: blood, thyroid.

**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**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:** Acute Potential Health Effects: Skin: Causes skin irritation Eyes: Causes eye irritation Inhalation: Causes respiratory tract and mucous membrane irritation. Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting. May affect behavior/Central Nervous System (hallucinations, distorted perceptions, personality and mood changes, mania, disorientation, weakness, seizures), metabolism. Chronic Potential Health Effects: Prolonged exposure may affect the thyroid gland and blood cells, and cause personality and mood changes.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

### 14.1. Land transport (ADR-RID)

Proper shipping name	: FLAMMABLE SOLID, TOXIC, INORGANIC
UN N°	: 3178
ADR - Class	: 4.1
ADR – Group	: II

### 14.2. Sea transport (IMDG) [English only]

Proper shipping name	: FLAMMABLE SOLID, TOXIC, INORGANIC
UN N°	: 3178
Hazard Class	: 4.1
IMO-IMDG - Packing group	: II

### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: FLAMMABLE SOLID, TOXIC, INORGANIC
UN N°	: 3178

## Section 14: Transport Information (continued)

Hazard Class :4.1  
IATA - Packing group : II

## Section 15: Other Regulatory Information

**Federal and State Regulations:** Connecticut hazardous material Survey. Ammonium thiocyanate Illinois toxic substances disclosure to employee act: Ammonium thiocyanate Illinois chemical safety act: Ammonium thiocyanate New York release reporting list: Ammonium thiocyanate Pennsylvania RTK: Ammonium thiocyanate Massachusetts RTK: Ammonium thiocyanate Massachusetts spill list: Ammonium thiocyanate New Jersey: Ammonium thiocyanate New Jersey spill list: Ammonium thiocyanate Louisiana spill reporting: Ammonium thiocyanate TSCA 8(b) inventory: Ammonium thiocyanate CERCLA: Hazardous substances.: Ammonium thiocyanate: 5000 lbs. (2268 kg)

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36- Wear suitable protective clothing. S46- If swallowed, seek medical advice immediately and show this container or label.

### HMIS (U.S.A.):

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** E

### National Fire Protection Association (U.S.A.):

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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