

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

**Regd Office:** Unit no 12, 1st Floor,  
Neminath Industrial Estate No.6,  
Navghar, Vasai (East), Palghar - 410210.  
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**Tel:** +91 250 2390032 / 2390989 / 2390990  
**Email:** sales@oxfordlabchem.com /  
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**Web:** www.oxfordlabchem.com

**Oxford**  
Range of  
Laboratory Chemicals

## MATERIAL SAFETY DATA SHEET

### AMMONIUM SULPHITE CRYSTALS

MSDS CAS: 10196-04-0

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

##### Section 1: Chemical Product

**Product Name:** AMMONIUM SULPHITE CRYSTALS

**CAS#:** 10196-04-0

**Synonym:**

**Chemical Name:** Not available.

**Chemical Formula:**  $(\text{NH}_4)_2\text{SO}_3 \cdot \text{H}_2\text{O}$

**Molecular Weight:** 134.16

**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	Hazardous
Ammonium Sulphite	10196-04-0	100%	Yes

## Section 3: Hazards Identification

**Potential Acute Health Effects:** Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Potential Chronic Health Effects:** Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

### Potential Health Effects:

**Inhalation:** Inhalation of vapors causes irritation to the respiratory tract; symptoms may include coughing and shortness of breath. Concentrations of hydrogen Sulphide above 50 ppm may cause headache, insomnia, nausea, sore throat, dizziness, drowsiness, and pulmonary edema. Above 600 ppm for 30 minutes can cause death.

**Ingestion:** May be corrosive to the gastrointestinal tract through liberation of hydrogen Sulphide. Can cause nausea, vomiting, headache, cyanosis, respiratory depression, blood pressure fall, unconsciousness, tremors, convulsions, and death.

**Skin Contact:** Causes irritation, redness, and pain. May be absorbed through skin and cause hydrogen Sulphide poisoning.

**Eye Contact:** Splashes can cause burns to the eyes. Vapors can cause irritation with redness and pain.

**Chronic Exposure:** Chronic exposure may cause damage to exposed tissues.

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## Section 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for atleast 15 minutes. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available

**Explosion Hazards in Presence of Various Substances:**

**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.

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## Section 5: Fire and Explosion Data (Continued)

**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:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container.

## Section 7: Handling and Storage

**Handling Precautions :** Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

**Storage Precautions :** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 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.

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## Section 8: Exposure Controls/Personal Protection (Continued)

**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

<b>Physical state and appearance</b>	: Solid. (Deliquescent crystals solid.)
<b>Odour</b>	: Odorless.
<b>Taste</b>	: Sulfurous.
<b>Molecular Weight</b>	: 134.16g/mole.
<b>Color</b>	: Colorless
<b>pH (1% soln/water)</b>	: Not available.
<b>Boiling Point</b>	: Not available.
<b>Melting Point</b>	: Decomposes
<b>Critical Temperature</b>	: Not available.
<b>Specific Gravity</b>	: 1.41 (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>Solubility</b>	: Not available

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

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## Section 10: Stability and Reactivity Data (Continued)

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Slightly reactive to reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

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

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

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

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

**Toxicity to Animals:**

**LD50:** Not available.

**LC50:** Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Very hazardous in case of ingestion.

Hazardous in case of skin contact (irritant), 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:** Not available.

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## 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 more toxic.

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

## Section 13: Disposal Considerations

**Waste Disposal:**

## Section 14: Transport Information

### **1. Land transport (ADR-RID)**

<b>Proper shipping name</b>	<b>: AMMONIUM SULPHITE CRYSTALS</b>
<b>UN N°</b>	<b>: 9090</b>
<b>ADR - Class</b>	<b>: 9</b>
<b>ADR - Group</b>	<b>: III</b>

### **2. Sea transport (IMDG) [English only]**

<b>Proper shipping name</b>	<b>: AMMONIUM SULPHITE CRYSTALS</b>
<b>UN N°</b>	<b>: 9090</b>
<b>IMO-IMDG - Class or division</b>	<b>: 9</b>
<b>IMO-IMDG - Packing group</b>	<b>: III</b>

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## Section 14: Transport Information (Continued)

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

**Proper shipping name** : AMMONIUM SULPHITE CRYSTALS  
**UN N°** : 9090  
**IATA - Class or division** : 9  
**IATA - Packing group** : III

## Section 15: Other Regulatory Information

### Federal and State Regulations:

**Pennsylvania RTK:** Ammonium sulphite

**Massachusetts RTK:** Ammonium sulphite

**New Jersey:** Ammonium sulphite

**TSCA 8(b) inventory:** Ammonium sulphite

### CERCLA:

**Hazardous substances.:** Ammonium sulfite

**Other Regulations:** Not available.

### Other Classifications:

**Health Hazard:** 2

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



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## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

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