OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CADMIUM SULPHIDE (ORANGE) 99%

MSDS CAS: 1306-23-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CADMIUM SULPHIDE (ORANGE) 99%
CAS#: 1306-23-6
Synonym: Orange cadmium
Chemical Name: Cadmium sulfide
Chemical Formula: CdS

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,
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Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cadmium sulfide	1306-23-6	100

Toxicological Data on Ingredients: Cadmium sulfide: ORAL (LD50): Acute: 7080 mg/kg [Rat.]. 1166 mg/kg [Mouse].

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Section 3: Hazards Identification

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

Potential Chronic Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

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

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion: Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

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Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.
Auto-Ignition Temperature: Not available.
Flash Points: Not available.
Flammable Limits: Not available.
Products of Combustion: Some metallic oxides.
Fire Hazards in Presence of Various Substances: Non-flammable in presence of open flames and sparks.
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.
Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards: When heated to decomposition it emits very toxic fumes.
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.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as acids.

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Section 7: Handling and Storage (Continued)

Storage: **Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.**

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: TWA: 0.01 (ppm) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid powder.)
Odor : Not available.
Taste : Not available.
Molecular Weight : 144.46 g/mole
Color : Yellow or brown.
pH (1% soln/water) : Not available.
Boiling Point : Not available.
Melting Point : Sublimes. (980°C or 1796°F)
Critical Temperature : Not available.
Specific Gravity : 4.82 (Water = 1)

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Section 9: Physical and Chemical Properties (Continued)

Vapor Pressure : **Not applicable.**
Vapor Density : **Not available.**
Volatility : **Not available.**
Odor Threshold : **Not available.**
Water/Oil Dist. Coeff. : **Not available.**
Ionicity (in Water) : **Not available.**
Dispersion Properties : **Not applicable.**
Solubility : **Insoluble in cold water, hot water**

Section 10: Stability and Reactivity Data

Stability : **The product is stable.**
Instability Temperature : **Not available.**
Conditions of Instability : **Not available.**
Incompatibility with various substances : **Reactive with acids. Slightly reactive to reactive with oxidizing agents.**
Corrosivity : **Non-corrosive in presence of glass.**
Special Remarks on Reactivity : **Reacts violently with iodine monochloride.**
Special Remarks on Corrosivity : **Not available.**
Polymerization : **No.**

Section 11: Toxicological Information

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

Toxicity to Animals: **Acute oral toxicity (LD50): 1166 mg/kg [Mouse].**

Chronic Effects on Humans: **CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP. The substance is toxic to kidneys, lungs, liver.**

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

Special Remarks on Toxicity to Animals: **Not available.**

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Section 11: Toxicological Information (Continued)

Special Remarks on Chronic Effects on Humans: **Tumorigen.**

Special Remarks on other Toxic Effects on Humans: **Exposure can cause nausea, headache and vomiting.**

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 as toxic as the original product.**
Special Remarks on the Products of Biodegradation: **Not available**

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
H.I. nr : 90
ADR - Class : 9
Labelling - Transport : 9 : Miscellaneous dangerous substances and articles

Sea transport (IMDG) [English only]

Proper shipping name : : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

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Section 14: Transport Information (Continued)

UN N° : 3077
IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles
IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
IATA - Class or division : 9 : Miscellaneous dangerous substances and articles.
IATA - Packing group : III

Section 15: Other Regulatory Information

Federal and State Regulations: **California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Cadmium sulfide California prop.**
This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Cadmium sulfide Pennsylvania RTK: Cadmium sulfide Massachusetts RTK: Cadmium sulfide TSCA 8(b) inventory: Cadmium sulfide SARA 313 toxic chemical notification and release reporting: Cadmium sulfide CERCLA: Hazardous substances.: Cadmium sulfide.

Other Regulations : **OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).**

Other Classifications:
WHMIS (Canada): CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC):
Irritating to eyes and skin. May cause cancer.

HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: E

Section 15: Other Regulatory Information (Continued)

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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