Regd Office: Unit no 12, 1st Floor, Neminath Industrial Estate No.6, Navghar, Vasai (East), Palghar - 410210. Maharashtra, INDIA. 

MATERIAL SAFETY DATA SHEET

INDIUM NITRATE 99.9%

(Hydrate)

MSDS CAS: 207398-97-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: INDIUM NITRATE (Hydrate)

CAS#: 207398-97-8

Synonym: Not Available.

Chemical Name: Indium Nitrate (Hydrate)

Chemical Formula: InN₃O₉ · xH₂O

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

Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Indium Nitrate (Hydrate)	207398-97-8	100

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Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Oxidizing solids (Category 2)

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 4)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. Harmful by inhalation, in contact with skin and if swallowed.

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard statement(s):

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P280 Wear protective gloves/ protective clothing.

Supplemental Hazard none

According to European Directive 67/548/EEC as amended.

R-phrase(s):

R 8 Contact with combustible material may cause fire.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

S-phrase(s):

S17 Keep away from combustible material.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 Take off immediately all contaminated clothing.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Other hazards: None

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Section 4: First Aid Measures

Description of 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:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

Cough, Shortness of breath, Headache, Nausea, Vomiting, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed: No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Indium/indium oxides

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

<u>Further information:</u> Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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Section 6: Accidental Release Measures (Continued)

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. 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

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

Conditions for safe storage, including any incompatibilities:

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

Specific end use(s): No data available.

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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Section 8: Exposure Controls/Personal Protection (Continued)

Body Protection:

Water solubility

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance Form : Crystals with lumps Odour : No data available **Odour Threshold** : No data available Ha : No data available **Molecular Weight** : 300.83 g/mole **Melting point** : No data available **Boiling range** : No data available Flash point : Not applicable **Evaporation rate** : No data available Flammability (solid, gas) : No data available **Explosive limits** : No data available Vapour pressure : No data available Vapour density : No data available **Relative density** : No data available

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

: No data available
: No data available
: No data available

Oxidizing properties : The substance or mixture is classified as oxidizing with the category 2.

: No data available

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Section 10: Stability and Reactivity Data

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid moisture.

Incompatible materials: Strong reducing agents, Strong acids.

Hazardous decomposition products: Other decomposition products - no data available.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available. Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity

<u>IARC</u>: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

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Section 11: Toxicological Information (Continued)

Skin Harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure:

Cough, Shortness of breath, Headache, Nausea, Vomiting, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Section 13: Disposal Considerations

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: NITRATES, INORGANIC, N.O.S.

UN N°: 1477 H.I. nr: -

ADR - Class: 5.1

Labelling - Transport: 4.1: Flammable solid.

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: NITRATES, INORGANIC, N.O.S.

UN N°: 1477

IMO-IMDG - Class or division: 5.1 IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: NITRATES, INORGANIC, N.O.S.

UN N°: 1477

IATA - Class or division: 5.1 IATA - Packing group: II

Section 15: Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

Chemical Safety Assessment: No data available

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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