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MATERIAL SAFETY DATA SHEET

ZIRCONIUM NITRATE

(Zirconyl Nitrate) (Extra Pure) MSDS CAS: 14985-18-3

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Zirconium Nitrate (Zirconyl Nitrate) (Extra Pure)

CAS#: 14985-18-3

Synonym: Not available.

Chemical Name: Zirconyl Nitrate Chemical Formula: ZrO(NO3)2

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
Zirconyl Nitrate	14985-18-3	100

Toxicological Data on Ingredients: Zirconyl nitrate: ORAL (LD50): Acute: 2500 mg/kg [Rat].

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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. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eve 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.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

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

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. 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:

Auto-Ignition Temperature:

Flash Points:

Flammable Limits:

Products of Combustion:

Fire Hazards in Presence of Various Substances:

Non-flammable.

Not applicable.

Not applicable.

Not applicable.

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:

Special Remarks on Fire Hazards:

Not available.

Not available.

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:

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. 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. Keep away from combustible 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

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Section 7: Handling and Storage (Continued)

Storage: Oxidizing materials should be stored in a separate 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:

Vapor Pressure:

Vapor Density:

Volatility:

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: 5 CEIL: 10 (mg/m3) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid

Odor: Not available. Taste: Not available. **Molecular Weight:** 231.23 g/mole Color: Not available. pH (1% soln/water): Not available. **Boiling Point:** Decomposes. **Melting Point:** Not available. **Critical Temperature:** Not available. **Specific Gravity:** Not available.

Not available.
Not applicable.
Not applicable.

Not available.

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Section 9: Physical and Chemical Properties (Continued)

Odor Threshold:

Water/Oil Dist. Coeff.:

Ionicity (in Water):

Dispersion Properties:

Solubility:

Not available.

Not available.

Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available. Conditions of Instability: Not available. Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available 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): 2500 mg/kg [Rat].

Chronic Effects on Humans: Not available.

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: 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

Land transport (ADR-RID)

Proper shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S.

UN N°: 3085 H.I. nr: 58

ADR - Class: 5.1

Sea transport (IMDG) [English only]

Proper shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S.

UN N°: 3085

H.I. nr: 5.1: Oxidizing substances. (8: Corrosive substance.)

ADR - Class: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S.

UN N°: 3085

H.I. nr: 5.1: Oxidizing substances. (8: Corrosive substance.)

ADR - Class: II

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Section 15: Other Regulatory Information

Federal and State Regulations:

Pennsylvania RTK: Zinc sulfide Massachusetts RTK: Zinc sulfide TSCA 8(b) inventory: Zinc sulfide SARA 313 toxic chemical notification and release reporting: Zinc sulfide CERCLA: Hazardous substances.: Zinc sulfide

Other Regulations: Not available.

Other Classifications:

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

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2 Fire Hazard: 1 Reactivity: 0

Personal Protection: E

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

Health: 2

Flammability: 1 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.

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