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# MATERIAL SAFETY DATA SHEET

# MANGANESE CHLORIDE Tetrahydrate AR

MSDS CAS: 13446-34-9

# Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product** 

Product Name: MANGANESE CHLORIDE Tetrahydrate AR

CAS#: - 13446-34-9

Synonym: Not available.

Chemical Name: Not available. Chemical Formula: MnCl2.4H2O

**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
MANGANESE CHLORIDE	13446-34-9	100
Tetrahydrate AR		

<u>Toxicological Data on Ingredients:</u> Manganese chloride tetrahydrate: ORAL (LD50): Acute: 1454 mg/kg [Rat].

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## **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. Slightly hazardous in case of skin contact (permeator).

### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, the nervous system, mucous membranes. 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. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

#### **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. Cold water may be used. 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 immediate 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. 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: Non-flammable.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

**Products of Combustion:** Not available.

Fire Hazards in Presence of Various Substances: Not Applicable

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

Risks of explosion of the product in presence of mechanical impact: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not applicable.

Special Remarks on Explosion Hazards: Not applicable.

## **Section 6: Accidental Release Measures**

<u>Small Spill:</u> 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.

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

<u>Precautions:</u> 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)**

<u>Storage:</u> No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

## **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.

<u>Personal Protection:</u> Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

<u>Personal Protection in Case of a Large Spill:</u> 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: 1 STEL: 3 (mg/m3) from ACGIH Consult local authorities for acceptable exposure limits.

# **Section 9: Physical and Chemical Properties**

Physical state and appearance : Solid.

Odor : odorless

Taste : Not available.

Molecular Weight : 197.9 g/mole

Color : Not available.

pH (1% soln/water) : 3,5 - 6 at 50 g/l at 25 °C

Boiling Point : 1190°C (2174°F)

Melting Point : 58°C (136.4°F)

Critical Temperature : Not available.

Specific Gravity : 2.01 (Water = 1)

Vapor Pressure : Not applicable.

Vapor Density : Not available.
Volatility : Not available.
Odor Threshold : Not available.

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# **Section 9: Physical and Chemical Properties (Continued)**

Water/Oil Dist. Coeff. : Not available. Ionicity (in Water) : Not available.

**Dispersion Properties** : See solubility in water.

**Solubility** : Easily soluble in cold 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:** 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. Ingestion., Inhalation.

**Toxicity to Animals:** LD50: Not available. LC50: 1454 mg/kg [Rat].

**Chronic Effects on Humans:** The substance is toxic to lungs, the nervous system, mucous membranes.

#### **Other Toxic Effects on Humans:**

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

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# **Section 11: Toxicological Information (Continued)**

**Special Remarks on Chronic Effects on Humans:** Animal embryotoxic.

**Special Remarks on other Toxic Effects on Humans:** Not available.

# **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 product of degradation are more toxic.

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

# **Section 13: Disposal Considerations**

#### Waste treatment

# **Section 14: Transport Information**

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

Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Manganese dichloride tetrahydrate)

UN N° : 3288 Labelling – Transport : 6.1 ADR – Group : III

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

Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Manganese dichloride tetrahydrate)

UN  $N^{\circ}$  : 3288

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# **Section 14: Transport Information(Continued)**

IMO-IMDG - Class or division: 6.1 IMO-IMDG - Packing group: III

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

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S. (Manganese dichloride tetrahydrate)

UN N°: 3288

IATA - Class or division: 6.1 IATA - Packing group : III

## **Section 15: Other Regulatory Information**

<u>Federal and State Regulations:</u> Pennsylvania RTK: Manganese chloride tetrahydrate Massachusetts RTK: Manganese chloride tetrahydrate TSCA 8(b) inventory: Manganese chloride tetrahydrate SARA 313 toxic chemical notification and release reporting: Manganese chloride tetrahydrate

### **Other Regulations:**

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

### **Other Classifications:**

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.

## <u>HMIS (U.S.A.):</u>

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. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

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# **Section 16 - Additional Information**

**References**: Not available.

Other Special Considerations: Not available.

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