OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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Tel: +91 250 2390032 / 2390989 / 2390990
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CALCIUM CHLORIDE (DIHYDRATE) 99% AR

MSDS CAS: 10035-04-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: Calcium Chloride Dihydrate AR
CAS#: 10035-04-8
Synonym:
Chemical Name: Calcium Chloride Dihydrate.
Chemical Formula: $CaCl_2.2H_20$.

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
Calcium Chloride Dihydrate	10035-04-8	100

Toxicological Data on Ingredients: Calcium chloride dihydrate LD50: Not available. LC50: Not available.

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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:
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to heart.
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.

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. Cold water may be used. 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.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

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Section 5: Fire and Explosion Data (Continued)

Auto-Ignition Temperature: Not available
Flash Points: Not available.
Flammable Limits: Not available.
Products of Combustion: Not applicable.
Fire Hazards in Presence of Various Substances: 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.
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. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

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. Keep away from incompatibles such as metals, acids.

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

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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: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor	**: Odorless.**
Taste	**: Not available.**
Molecular Weight	**: 147.01 g/mole**
Color	**: White.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Not available.**
Melting Point	**: 175.5°C (347.9°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: Bulk density: 0.835 (Water = 1)**
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	**: See solubility in water.**
Solubility	**: Easily soluble in cold water, hot water. Freely soluble in alcohol.**

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Section 10: Stability and Reactivity Data

Stability : **The product is stable.**
Instability Temperature: **Not available.**
Conditions of Instability: **Dust generation, exposure to moist air or water, incompatible materials**
Incompatibility with various substances: **Reactive with metals, acids.**
Corrosivity : **Non-corrosive in presence of glass.**
Special Remarks on Reactivity: **Hygroscopic; keep container tightly closed. Methyl Vinyl Ether, Zinc, Reacts violently with Boric acid and Calcium Oxide, Bromine Trifluoride, 2-Furanpercarboxylic acid, boron oxides, solutions attack some metals.**
Special Remarks on Corrosivity: **Not available.**
Polymerization : **Will not occur.**

Section 11: Toxicological Information

Routes of Entry: **Inhalation. Ingestion.**
Toxicity to Animals: **LD50: Not available. LC50: Not available.**
Chronic Effects on Humans: **May cause damage to the following organs: heart**
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: **May affect genetic material (mutagenic).**
Special Remarks on other Toxic Effects on Humans: **Acute Potential Health Effects: Skin: Causes skin irritation with possible burning sensation especially if skin is wet or moist.**
Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation with burning sensation and pain in nasal cavities, occasional nose bleeding and tickling in the throat. Ingestion: May be harmful if swallowed. May cause severe gastrointestinal tract irritation witn nausea, and vomiting. May cause cardiac disturbances (slowing of heart rate, arrhythmia, tachycardia, heart fibrillation). May affect behavior (somnolence, convulsions). Chronic Potential Health Effects: Ingestion: May affect the musculoskeletal system, blood, brain, heart, and metabolism (weight loss)

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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 product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations : No products were found.

Other Regulations:
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

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Section 15: Other Regulatory Information (Continued)

Other Classifications:

WHMIS (Canada):

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

Irritating to eyes, respiratory system and skin. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

HMIS (U.S.A.):

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. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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