

Material Safety Data Sheet (MSDS)

Product Name: Hydrated Lime 90% (Calcium Hydroxide)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

- **Product Identifier:** Hydrated Lime 90% (Calcium Hydroxide)
- **Synonyms:** Slaked Lime, Hydrated Lime Powder, Calcium Dihydroxide
- **Recommended Use:** Industrial, chemical, water treatment, construction
- **Restrictions:** Not for food, drug, or household applications

2. Hazard Identification

- **Classification (GHS):**
 - Skin Irritation (Category 2)
 - Serious Eye Damage (Category 1)
 - Specific Target Organ Toxicity – Single Exposure (Respiratory tract irritation, Category 3)
- **Signal Word:** DANGER

- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye damage
 - May cause respiratory irritation
 - **Precautionary Statements:**
 - Avoid breathing dust
 - Wash thoroughly after handling
 - Use protective gloves, clothing, eye, and face protection
-

3. Composition / Information on Ingredients

- **Chemical Name:** Calcium Hydroxide
 - **CAS No.:** 1305-62-0
 - **EC No.:** 215-137-3
 - **Concentration:** 90%
-

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Immediately flush with water for at least 15 minutes. Seek urgent medical attention.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Get medical advice.
-

5. Firefighting Measures

- **Flammability:** Non-combustible.
- **Suitable Extinguishing Media:** Use water spray, foam, dry powder, or CO₂ for surrounding fire.
- **Special Hazards:** Reaction with acids releases heat.
- **Protective Equipment:** Wear full protective gear and SCBA if involved in fire.

6. Accidental Release Measures

- Avoid dust formation.
- Ventilate area.
- Sweep up without creating dust.
- Collect in dry, clean containers.
- Prevent entry into drains.

7. Handling and Storage

- Handle in well-ventilated area.
- Avoid dust inhalation and contact with eyes/skin.
- Store in cool, dry place away from acids and moisture.
- Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit (OEL):** TLV (ACGIH) 5 mg/m³ (TWA, respirable fraction)
- **Engineering Controls:** Local exhaust ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask or respirator
 - Eyes: Safety goggles/face shield
 - Hands: Protective gloves
 - Skin: Protective clothing

9. Physical and Chemical Properties

- Appearance: White, fine powder
- Odor: Odorless
- pH (saturated solution): ~12.4

- Melting Point: Decomposes at 580 °C
- Solubility: Slightly soluble in water (~1.7 g/L at 20 °C)
- Bulk Density: ~450–600 kg/m³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Acids, moisture, ammonium salts, aluminum, and strong oxidizers.
- **Hazardous Decomposition Products:** None under normal conditions.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) ~ 7340 mg/kg
- **Skin:** Irritant
- **Eyes:** Causes serious damage
- **Inhalation:** Irritant to respiratory tract
- **Chronic Effects:** Prolonged exposure may cause dermatitis and lung effects

12. Ecological Information

- Not classified as environmentally hazardous.
- High alkalinity may cause harmful effects on aquatic life if released in large quantities.
- Not bioaccumulative.

13. Disposal Considerations

- Dispose of contents/container in accordance with local, regional, national, and international regulations.
- Neutralize with dilute acid before disposal if required.

14. Transport Information (Detailed)

- **UN Number:** Not regulated (Non-hazardous for transport under ADR, IMDG, IATA)
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not classified as dangerous
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not a marine pollutant
- **Special Precautions for User:**
 - Prevent moisture ingress during transport
 - Avoid dust release during loading/unloading
 - Use sealed bags or bulk containers
- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not applicable
- **Additional Notes:**
 - Though not classified as hazardous, hydrated lime dust can cause serious irritation to eyes and respiratory system during handling.
 - Proper labeling and documentation are advised to ensure safety during transport.

15. Regulatory Information

- Classified according to Regulation (EC) No. 1272/2008 [CLP].
- Listed in OSHA Hazard Communication Standard.
- Not listed as a carcinogen by IARC, NTP, or OSHA.

16. Other Information

- It is intended for guidance and safety information only.
- Users are responsible for safe handling and compliance with applicable laws.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.