

Material Safety Data Sheet (MSDS)

Product Name: Lactose Monohydrate BP Grade

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

- **Chemical Name:** Lactose Monohydrate
- **Synonyms:** Milk sugar
- **CAS Number:** 64044-51-5
- **BP Grade:** British Pharmacopoeia compliant

2. Composition / Information on Ingredients

- **Chemical Composition:** Lactose Monohydrate > 99%
- **Impurities:** Trace amounts of moisture, ash < 0.1%

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous
- **Potential Health Effects:**

- **Inhalation:** May cause mild respiratory irritation if inhaled in large quantities
- **Skin Contact:** Generally non-irritating
- **Eye Contact:** Dust may cause minor irritation
- **Ingestion:** Safe at normal doses; high amounts may cause laxative effects

4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse thoroughly with water. Seek medical advice if irritation persists.
- **Ingestion:** Drink water. In case of discomfort, consult a physician.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical, foam
- **Unsuitable Extinguishing Media:** None known
- **Special Hazards:** May produce irritating gases (CO, CO₂) on decomposition
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum material and place in suitable container for disposal.
- Wash affected area with water.
- Use appropriate PPE during cleanup.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use adequate ventilation.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** No specific limit; general dust control recommended
 - **Engineering Controls:** Local exhaust ventilation
 - **Personal Protection:**
 - Gloves for prolonged contact
 - Dust mask if dust levels are high
 - Safety goggles
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **Solubility:** Soluble in water, slightly soluble in alcohol
 - **Melting Point:** 202–204°C (decomposes)
 - **pH:** 5.5–7.0 (5% solution)
 - **Density:** 1.53 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Conditions to Avoid:** High humidity, heat, sparks
 - **Incompatible Materials:** Strong oxidizers
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic
- **Chronic Toxicity:** No known long-term effects
- **Carcinogenicity / Mutagenicity:** Not listed as carcinogenic
- **Sensitization:** May cause mild irritation on prolonged exposure

12. Ecological Information

- **Biodegradability:** Readily biodegradable
- **Aquatic Toxicity:** Low toxicity to aquatic life
- **Bioaccumulation:** Not expected to bioaccumulate

13. Disposal Considerations

- Dispose of according to local regulations.
- Avoid release into water bodies.
- Can be incinerated or landfilled in accordance with regulations.

14. Transport Information (Detailed)

UN Number: Not regulated

UN Proper Shipping Name: Not classified as dangerous goods

Transport Hazard Class: N/A

Packing Group: N/A

Environmental Hazards: None

Special Precautions:

- **Handling:** Ensure the product is properly packaged to avoid spillage during transport. Use sealed containers and avoid exposure to moisture.
- **Transport Mode:** Can be transported by road, rail, or air as general cargo. Not classified as hazardous.
- **Labeling:** Follow general labeling for chemical or pharmaceutical powders; “Keep Dry” and “Handle with Care” labels are recommended.
- **Storage During Transport:** Keep in a cool, dry, and ventilated area. Avoid stacking in a way that may crush the containers.
- **Emergency Measures:** In case of spillage, avoid dust formation. Clean up immediately and dispose according to local regulations.

15. Regulatory Information

- Compliant with BP (British Pharmacopoeia) standards
- Not classified under GHS hazardous substances
- Follows local environmental and safety regulations

16. Other Information

- **Disclaimer:** Information in this MSDS is based on current knowledge and is intended to describe safety requirements of the product. It should not be construed as guaranteeing any specific property.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.