

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Stearate

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Magnesium Stearate
- **Synonyms:** Octadecanoic acid magnesium salt, Stearic acid magnesium salt
- **CAS No.:** 557-04-0
- **EC No.:** 209-150-3
- **Intended Use:** Lubricant, release agent, excipient in technical and industrial formulations.

2. Hazard Identification

- Not classified as hazardous under GHS criteria.
- **Primary Hazards:**
 - Dust may cause mechanical irritation to eyes and respiratory tract.
 - Fine dust may form explosive mixtures with air.

- **Signal Word:** None required.
 - **Hazard Statements:** Not considered hazardous.
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3. Composition / Information on Ingredients

- **Chemical Name:** Magnesium Stearate
 - **Molecular Formula:** C₃₆H₇₀MgO₄
 - **Molecular Weight:** 591.27 g/mol
 - **Purity:** ≥ 95%
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. If irritation develops, get medical help.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if discomfort continues.
 - **Ingestion:** Rinse mouth and drink water. If symptoms occur, consult a doctor.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
 - **Hazardous Combustion Products:** Carbon oxides, magnesium oxides.
 - **Protective Equipment:** Wear self-contained breathing apparatus (SCBA).
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6. Accidental Release Measures

- Avoid dust formation. Use protective equipment.
 - Sweep up and place in appropriate container for disposal.
 - Ensure adequate ventilation. Prevent release into drains.
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7. Handling and Storage

- **Handling:** Avoid dust generation and inhalation. Use adequate ventilation.

- **Storage:** Store in cool, dry, well-ventilated place. Keep container tightly closed. Protect from heat and ignition sources.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established.
- **Engineering Controls:** Use local exhaust ventilation if dust is generated.
- **Personal Protective Equipment (PPE):**
 - Respiratory: Dust mask or respirator.
 - Eye: Safety goggles.
 - Skin: Protective gloves and clothing.

9. Physical and Chemical Properties

- **Appearance:** Fine white, hydrophobic powder
- **Odor:** Faint fatty odor
- **Melting Point:** > 120 °C
- **Solubility:** Practically insoluble in water
- **Density:** ~1.03 g/cm³
- **Flash Point:** Not applicable
- **Explosive Properties:** Dust may form explosive mixtures with air

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** None under normal use.
- **Decomposition Products:** Carbon oxides, magnesium oxide.
- **Incompatible Materials:** Strong oxidizers, strong acids.

11. Toxicological Information

- **Acute Toxicity:** Low oral toxicity (LD50 rat > 10,000 mg/kg).
- **Skin/Eye Irritation:** May cause mechanical irritation.
- **Sensitization:** Not expected.
- **Chronic Effects:** No known long-term health hazards.

12. Ecological Information

- **Eco-toxicity:** Not classified as hazardous to environment.
- **Persistence & Degradability:** Biodegradable.
- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** Low due to insolubility in water.

13. Disposal Considerations

- Dispose of waste in accordance with local, regional, and national regulations.
- Avoid release into sewers or natural waterways.
- Can be incinerated in compliance with local guidelines.

14. Transport Information (Detailed)

UN Number: Not applicable (not classified as dangerous goods).

UN Proper Shipping Name: Magnesium Stearate (Technical Grade).

Transport Hazard Class(es): Not regulated.

Packing Group: Not applicable.

Marine Pollutant: No.

Special Precautions for Transport:

- Avoid generation of dust during handling and transfer.
- Protect from moisture, high temperature, and ignition sources.
- Transport in tightly sealed, properly labeled containers.
- Ensure vehicle is dry, clean, and covered to prevent contamination.

ADR/RID (Road/Rail Transport): Not classified as hazardous.

IMDG (Maritime Transport): Not regulated. Not a marine pollutant.

ICAO/IATA (Air Transport): Not restricted.

Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code): Not applicable.

15. Regulatory Information

- **Regulations:**
 - Not listed as hazardous under EU CLP, OSHA, or Indian regulations.
 - Complies with technical-grade specifications for non-pharma use.

16. Other Information

- This MSDS is prepared in accordance with GHS guidelines.
- Information is based on current knowledge and is intended for safe handling.
- **Disclaimer:** The company does not assume liability for improper use of the product.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.