

Material Safety Data Sheet (MSDS)

Product Name: Magnesium Stearate BP Grade

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 BP Grade
- **Synonyms:** Octadecanoic acid, magnesium salt; Magnesium di stearate
- **Recommended Use:** Pharmaceutical excipient, lubricant, anti-adherent
- **Restrictions on Use:** For industrial and laboratory use only, not for direct food consumption.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Hazard Statements:** May cause mild irritation to eyes, skin, and respiratory tract.
- **Precautionary Statements:**
 - Avoid inhalation of dust.
 - Use with adequate ventilation.
 - Wash thoroughly after handling.

- **GHS Label Elements:** No symbol required.
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3. Composition / Information on Ingredients

- **Chemical Name:** Magnesium Stearate
 - **Molecular Formula:** C₃₆H₇₀MgO₄
 - **CAS No.:** 557-04-0
 - **EINECS No.:** 209-150-3
 - **Concentration:** ≥ 98% (BP Grade)
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4. First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing discomfort occurs, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Seek medical advice if irritation persists.
 - **Ingestion:** Rinse mouth with water. Non-toxic in small quantities, but seek medical advice if large amount is ingested.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Dry chemical powder, foam, carbon dioxide, water spray.
 - **Specific Hazards:** Dust may form explosive mixtures with air.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation, wear dust mask and protective gloves.
- **Environmental Precautions:** Prevent large amounts from entering drains or natural water.
- **Cleaning Methods:** Sweep up and collect in appropriate containers for disposal. Avoid creating dust.

7. Handling and Storage

- **Handling:** Use in well-ventilated areas. Avoid contact with eyes and skin. Prevent dust accumulation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and oxidizing agents.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for magnesium stearate; ACGIH recommends TLV (inhalable particulates, not otherwise classified) – 10 mg/m³.
- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protection:**
 - Respiratory: Dust mask or respirator.
 - Eye: Safety glasses with side shields.
 - Skin: Protective gloves and clothing.

9. Physical and Chemical Properties

- **Appearance:** White, fine powder
- **Odor:** Faint, characteristic fatty odor
- **Melting Point:** ~ 88 – 150 °C (decomposition)
- **Boiling Point:** Not applicable
- **Flash Point:** Not applicable (solid)
- **Solubility:** Insoluble in water, soluble in ethanol and chloroform
- **pH (suspension in water):** 7.0 – 8.5
- **Bulk Density:** ~ 0.15 – 0.25 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.

- **Conditions to Avoid:** Excessive heat, sparks, open flames.
- **Incompatible Materials:** Strong oxidizing agents, acids.
- **Hazardous Decomposition Products:** Carbon oxides, magnesium oxides.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 10,000 mg/kg (low toxicity).
- **Skin Irritation:** May cause slight irritation on prolonged contact.
- **Eye Irritation:** May cause mild irritation.
- **Inhalation:** Dust may irritate respiratory tract.
- **Chronic Effects:** No known chronic health hazards.

12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic organisms.
- **Persistence and Degradability:** Biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Low mobility due to insolubility in water.

13. Disposal Considerations

- **Product Disposal:** Dispose of in accordance with local, regional, and national regulations.
- **Packaging Disposal:** Dispose of as non-hazardous solid waste or recycle if appropriate.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as dangerous goods).
- **UN Proper Shipping Name:** Magnesium Stearate
- **Transport Hazard Class:** Not classified as hazardous.
- **Packing Group:** Not applicable.

- **Environmental Hazards:** Not environmentally hazardous.
- **Special Precautions for User:**
 - Avoid generation of airborne dust during loading/unloading.
 - Ensure containers are tightly closed to prevent spillage.
 - Use dust control systems in bulk transport.
- **Transport in Bulk According to Annex II of MARPOL and the IBC Code:** Not regulated for bulk transport.
- **Regulatory Information by Mode of Transport:**
 - **ADR/RID (Road/Rail - Europe):** Not regulated.
 - **IMDG (Sea):** Not regulated, not a marine pollutant.
 - **IATA/ICAO (Air):** Not regulated as dangerous goods.
- **General Transport Guidance:**
 - Product is safe under normal transportation conditions.
 - Ensure material is packaged in moisture-proof, sealed containers.
 - Store away from strong oxidizers and ignition sources during transport.

15. Regulatory Information

- **India:** Not classified as hazardous under Indian regulations.
- **EU (EC 1907/2006 - REACH):** Exempted substance.
- **US (OSHA, TSCA):** Listed on TSCA inventory; not hazardous.
- **Other Regulations:** Generally recognized as safe (GRAS) by FDA for use in pharmaceuticals.

16. Other Information

- **References:**
 - ECHA Chemical Database
 - Merck Index

- GHS & OSHA Hazard Communication Standard
- **Disclaimer:** The information above is believed to be accurate and represents the best data available. However, it is provided without warranty, and SBF Pharma assumes no liability for its use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.