

Material Safety Data Sheet (MSDS)

Product Name: Maltodextrin

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company Details

- **Product Name:** Maltodextrin
- **Chemical Formula:** $(C_6H_{10}O_5)_n \cdot H_2O$
- **Synonyms:** Hydrolyzed starch, polysaccharide
- **Recommended Use:** Food additive, pharmaceutical excipient, binder, filler

2. Hazard Identification

- **Classification:** Not hazardous according to GHS criteria.
- **Physical State:** Powder
- **Hazards to Humans & Environment:**
 - Dust may cause mild respiratory irritation.
 - May cause mild eye irritation.
 - No significant toxic effects reported.

- **GHS Label Elements:** None required.
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3. Composition/Information on Ingredients

- **Substance Name:** Maltodextrin
 - **CAS No.:** 9050-36-6
 - **EC No.:** 232-940-4
 - **Purity:** ≥ 95%
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4. First Aid Measures

- **Inhalation:** Remove to fresh air. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Not expected to cause irritation.
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.
 - **Ingestion:** Non-toxic. Rinse mouth with water.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
 - **Special Hazards:** Dust may form explosive mixtures in air.
 - **Protective Equipment:** Firefighters should wear protective gear and self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust generation. Use protective mask and goggles if necessary.
 - **Spill Cleanup:** Sweep up or vacuum and place into appropriate container. Avoid creating dust clouds.
 - **Environmental Precautions:** Product is biodegradable and poses minimal risk.
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7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene practices. Avoid dust inhalation.
- **Storage:** Store in cool, dry, and well-ventilated area. Keep container tightly closed. Protect from moisture.

8. Exposure Controls/Personal Protection

- **Exposure Limits:** Not established.
- **Respiratory Protection:** Use dust mask in case of excessive airborne dust.
- **Hand Protection:** Not required under normal use.
- **Eye Protection:** Safety glasses recommended.
- **General Hygiene:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White to off-white powder
- **Odor:** Odorless
- **pH (10% solution):** 4.0 – 6.0
- **Melting Point:** Decomposes before melting
- **Solubility:** Soluble in water
- **Bulk Density:** 0.4 – 0.6 g/cm³
- **Stability:** Stable under normal storage conditions

10. Stability and Reactivity

- **Stability:** Stable at room temperature.
- **Conditions to Avoid:** Excessive heat, sparks, open flames.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.
- **Incompatible Materials:** Strong oxidizing agents.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic (oral LD₅₀ > 5000 mg/kg in rats).
 - **Skin Irritation:** Not irritating.
 - **Eye Irritation:** Mild transient irritation possible.
 - **Carcinogenicity / Mutagenicity / Reproductive Toxicity:** Not classified as hazardous.
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12. Ecological Information

- **Biodegradability:** Readily biodegradable.
 - **Aquatic Toxicity:** No adverse effects expected.
 - **Bioaccumulation Potential:** Negligible.
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13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations. Non-hazardous waste.
 - **Packaging Disposal:** Recycle or dispose of safely as per regulations.
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14. Transport Information (*Detailed Information*)

- **UN Number:** Not regulated (no UN number assigned).
- **Proper Shipping Name:** Maltodextrin
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable
- **Marine Pollutant:** No
- **Special Precautions:**
 - Ensure packaging is well-sealed to prevent moisture absorption.
 - Avoid dust dispersion during transport as dust clouds may pose explosion risk.
 - Keep away from strong oxidizers and ignition sources.
- **Transport Regulations Compliance:**
 - **ADR/RID (Road/Rail Transport - Europe):** Not regulated

- **IMDG (Maritime Transport):** Not regulated
 - **IATA/ICAO (Air Transport):** Not regulated
 - **DOT (US Transport):** Not regulated
 - **Additional Notes:** Product is transported as a **food/pharma grade raw material**. Ensure proper labeling and documentation for traceability.
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15. Regulatory Information

- **Regulation Compliance:**
 - FDA (21 CFR §184.1444) – GRAS (Generally Recognized As Safe)
 - EU Regulation (EC) No 1333/2008 – Approved food additive
 - Not listed as hazardous under OSHA, REACH, or CLP
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16. Other Information

- **Abbreviations:** GHS = Globally Harmonized System, GRAS = Generally Recognized as Safe, LD₅₀ = Median lethal dose
- **Disclaimer:** The information provided in this MSDS is based on current knowledge and is intended to describe the product only in terms of safety requirements. It should not be construed as guaranteeing specific properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.