

Material Safety Data Sheet (MSDS)

Product Name: Sucralose Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Sucralose Food Grade

Synonyms: 1,6-Dichloro-1,6-dideoxy-β-D-fructofuranosyl-4-chloro-4-deoxy-α-D-galactopyranoside

CAS Number: 56038-13-2

Chemical Formula: C₁₂H₁₉Cl₃O₈

Molecular Weight: 397.64 g/mol

Recommended Use: High-intensity non-caloric sweetener used in food, beverages, pharmaceuticals, and nutraceuticals.

2. Hazard Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Hazard Statements:** Not a hazardous substance or mixture.
- **Potential Health Effects:**

- *Inhalation:* Dust may cause mild irritation.
- *Skin Contact:* Non-irritating.
- *Eye Contact:* Dust may cause mechanical irritation.
- *Ingestion:* Non-toxic at typical consumption levels.

3. Composition / Information on Ingredients

This product contains **Sucralose (CAS No. 56038-13-2)** as the main and only ingredient in a **purity of not less than 99%**. It does not contain any hazardous impurities or additives in concentrations that would require disclosure under current regulations.

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical advice.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse thoroughly with water for several minutes.
- **Ingestion:** Rinse mouth; drink water. Seek medical attention if discomfort occurs.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO₂.
- **Special Hazards:** May emit carbon oxides and hydrogen chloride under fire conditions.
- **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum the material; avoid generating airborne dust.
- Dispose of waste in accordance with local regulations.

7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene practices. Avoid inhalation of dust.
- **Storage:** Store in a cool, dry place away from direct sunlight and strong oxidizing agents.
- **Packaging:** Store in tightly closed containers to avoid moisture absorption.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment (PPE):**
 - Respiratory Protection: Dust mask if dust is generated.
 - Eye Protection: Safety goggles.
 - Skin Protection: Protective gloves and clothing.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Sweet, approximately 600 times sweeter than sucrose
- **Solubility:** Soluble in water, ethanol
- **Melting Point:** 125°C - 127°C (decomposes)
- **pH (1% solution):** 5.0 – 8.0
- **Stability:** Stable under normal conditions

10. Stability and Reactivity

- **Stability:** Stable under normal temperatures and pressures.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides, hydrogen chloride.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 16 g/kg (non-toxic)
- **Skin & Eye Irritation:** Non-irritant
- **Carcinogenicity:** Not classified as carcinogenic by IARC or OSHA.
- **Mutagenicity & Teratogenicity:** No evidence of genetic or reproductive toxicity.

12. Ecological Information

- **Ecotoxicity:** Low potential for bioaccumulation; not harmful to aquatic organisms.
- **Persistence and Degradability:** Slowly biodegradable in the environment.
- **Mobility in Soil:** Non-volatile; expected to have low mobility in soil.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Avoid discharge into drains or waterways.
- Can be incinerated or landfilled in approved facilities.

14. Transport Information

UN Number: Not regulated

UN Proper Shipping Name: Not applicable (Non-hazardous)

Transport Hazard Class: Not classified as dangerous goods

Packing Group: Not applicable

Environmental Hazards: Not considered hazardous to the environment

Special Precautions for User:

- Avoid creating dust during loading/unloading.
- Ensure containers are sealed and labeled properly.
- Store and transport in clean, dry containers away from incompatible substances (e.g., oxidizers).

- Protect from excessive heat and moisture.
- During bulk transport, ensure vehicle compartments are clean and free from contaminants.

Transport Labels: None required (non-hazardous)

Transport by Mode:

- **By Road (ADR/RID):** Not restricted
- **By Air (IATA):** Not regulated as dangerous goods
- **By Sea (IMDG):** Not regulated as dangerous goods
- **By Rail:** Non-hazardous

15. Regulatory Information

- **Regulation:** Not classified as hazardous under Indian Factories Act or GHS.
- **FDA / FSSAI Approval:** Approved as a non-nutritive sweetener for food and beverage use.
- **Inventory Listing:** Listed in EINECS, TSCA, and other major regulatory inventories.

16. Other Information

This information is provided in good faith and is believed to be accurate as of the revision date.

The user must determine the suitability of the material for their intended purpose.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.