

Material Safety Data Sheet (MSDS)

Product Name: Sodium Saccharin IP/BP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Manufacturer / Supplier:

SBF Pharma

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1. Identification of the Substance/Preparation and of the Company

Product Name: Sodium Saccharin (IP/BP Grade)

Synonyms: Saccharin sodium salt, Benzoic sulfimide sodium salt

Recommended Use: Food additive, pharmaceutical applications, sweetener

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous under GHS.
- **Possible Health Effects:**
 - May cause slight irritation to eyes, skin, or respiratory tract in sensitive individuals.
 - Ingestion in high doses may cause gastrointestinal discomfort.
- **Label Elements:**
 - Symbol: None required
 - Signal Word: None

- Hazard Statements: Not classified as hazardous
 - **Precautionary Statements:** Avoid dust formation, ensure adequate ventilation.
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3. Composition / Information on Ingredients

Chemical Name: Sodium Saccharin

Molecular Formula: $C_7H_4NO_3SNa \cdot 2H_2O$

CAS Number: 128-44-9

EC Number: 204-886-1

Concentration: $\geq 99\%$ (Food/Pharma Grade)

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Inhalation:** Remove to fresh air. Seek medical attention if breathing difficulty occurs.
 - **Ingestion:** Rinse mouth with water. Seek medical advice if large amounts ingested.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO_2 , foam.
 - **Special Hazards:** Emits toxic fumes of SO_x and NO_x when burned.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and collect in suitable containers for disposal.
 - Provide adequate ventilation.
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7. Handling and Storage

- Handle in accordance with good hygiene practices.
- Avoid dust generation and inhalation.
- Store in tightly closed containers in a cool, dry, well-ventilated place.
- Keep away from moisture and incompatible materials.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation, local exhaust if dust is generated.
- **Personal Protective Equipment (PPE):**
 - Eye/Face: Safety goggles
 - Skin: Protective gloves and clothing
 - Respiratory: Dust mask/respirator in case of dust formation
- **Hygiene Measures:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Sweet, approximately 300–500 times sweeter than sucrose
- **pH (10% solution):** 6.5 – 9.0
- **Melting Point:** > 228 °C (decomposes)
- **Solubility:** Soluble in water, slightly soluble in ethanol
- **Molecular Weight:** 241.2 g/mol

10. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** SO_x, NO_x on combustion.

11. Toxicological Information

- **Acute Toxicity (Oral):** LD₅₀ (rat) > 17,000 mg/kg (non-toxic in normal food use levels)
- **Skin Irritation:** Non-irritant (mild cases possible)
- **Eye Irritation:** Slight irritation possible
- **Chronic Effects:** No evidence of carcinogenicity at permitted food-use levels.

12. Ecological Information

- **Ecotoxicity:** Not expected to pose significant environmental hazard at normal use.
- **Persistence/Degradability:** Moderately persistent in environment.
- **Bioaccumulation:** Low potential.

13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Do not release into sewers or natural water sources.

14. Transport Information (Detailed)

UN Number: Not regulated (not assigned)

UN Proper Shipping Name: Sodium Saccharin (Not hazardous)

Transport Hazard Class(es): Not classified as dangerous goods

Packing Group: Not applicable

Environmental Hazards: Not considered hazardous to the environment

Special Precautions for User:

- Avoid generation of dust during transport.
- Ensure containers are sealed and protected from moisture.
Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code): Not applicable

Mode-Specific Information:

- **Road/Rail (ADR/RID):** Not regulated. Safe for transport in general chemical cargo.

- **Sea (IMDG):** Not classified as dangerous. Transport in dry containers.
- **Air (IATA/ICAO):** Not regulated as dangerous goods. Pack in well-sealed containers.
- **Inland Waterways:** No restrictions.

15. Regulatory Information

- **India:** Permitted food additive under FSSAI regulations.
- **EU:** Approved as food additive (E954).
- **US (FDA):** Recognized for use as non-nutritive sweetener within specified limits.

16. Other Information

This MSDS is prepared in accordance with GHS standards for safety data sheets.

The information is believed to be accurate but is provided without warranty.

Users should ensure suitability for intended application.

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