

Material Safety Data Sheet (MSDS)

Product Name: Sodium Propionate Powder Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

Product Name: Sodium Propionate Powder (Food Grade)

Chemical Name: Sodium Propionate

CAS No.: 137-40-6

Molecular Formula: $C_3H_5NaO_2$

Recommended Use: Food preservative, antimicrobial agent.

2. Hazards Identification

- Not classified as hazardous for food-grade applications.
- May cause mild irritation to eyes or respiratory tract if inhaled in high concentrations.
- Non-flammable and stable under normal conditions.

3. Composition / Information on Ingredients

Sodium Propionate: 99% Min.

Food Grade Additives: Non-hazardous, permitted

4. First Aid Measures

Inhalation: Move to fresh air; seek medical attention if irritation persists.

Skin Contact: Wash with water; no major irritation expected.

Eye Contact: Rinse with plenty of water for 10–15 minutes.

Ingestion: Non-toxic; rinse mouth; seek medical help if discomfort occurs.

5. Fire-Fighting Measures

- Non-flammable.
 - Use water spray, CO₂, or dry chemical agent for surrounding fire.
 - No hazardous decomposition under normal conditions.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and place in suitable container.
 - Wash area thoroughly with water.
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7. Handling and Storage

Handling: Avoid creating dust; use in well-ventilated area.

Storage: Store in cool, dry, airtight containers away from moisture.

8. Exposure Controls / Personal Protection

Respiratory Protection: Dust mask recommended.

Eye Protection: Safety goggles if dusty conditions occur.

Skin Protection: Gloves optional; wash hands after use.

9. Physical and Chemical Properties

- Appearance: White crystalline powder

- Odor: Slightly propionic
- Solubility: Soluble in water
- pH (10% sol.): 7–9
- Melting Point: 280–310°C (decomposes)

10. Stability and Reactivity

- Stable under recommended storage conditions.
- Avoid moisture and strong acids.
- Decomposition may release small amounts of CO₂.

11. Toxicological Information

- Low toxicity; considered safe for food use.
- High dust exposure may cause mild irritation.
- No known carcinogenic effects.

12. Ecological Information

- Not expected to cause environmental harm.
- Biodegradable and environmentally safe.

13. Disposal Considerations

- Dispose in accordance with local regulations.
- Safe for landfill disposal in small quantities.

14. Transport Information (DETAILED)

UN Number: Not applicable (Non-hazardous).

UN Proper Shipping Name: Not regulated as dangerous goods.

Transport Hazard Class: Not classified as hazardous for transport.

Packing Group: Not applicable.

Label Requirements: No special labeling required for food-grade material.

Marine Pollutant: No

Environmental Hazards: No known hazards.

Special Precautions for Transport:

- Keep container sealed to avoid moisture uptake.
- Protect from direct sunlight and water exposure.
- Ensure bags or containers are stacked securely to prevent damage or leaks.

Transport in Bulk (IMDG/IMO): Safe for bulk transport; must be protected from moisture.

ADR/RID: Not regulated.

IATA/ICAO: Not classified as dangerous goods for air transport.

15. Regulatory Information

- Approved food additive (E-281).
- Complies with international food safety standards.
- Not classified as hazardous under global regulations.

16. Other Information

This MSDS is prepared based on current knowledge and is intended for safe handling of the product in food and industrial applications. Users must verify suitability for their specific requirements.

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