

Material Safety Data Sheet (MSDS)

Product Name: Sodium Starch Glycolate IP Grade (Maize- 2018)

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:** Sodium Starch Glycolate
- **Grade:** IP Grade, Maize-based (2018)
- **Synonyms:** Carboxymethyl Starch Sodium Salt
- **Recommended Use:** Tablet disintegrant in pharmaceutical formulations.

2. Hazard Identification

- **Classification:** Non-hazardous according to standard regulatory criteria.
- **Physical Hazards:** None known.
- **Health Hazards:**
 - May cause mild irritation to eyes or respiratory tract if inhaled as dust.
- **Environment Hazards:** Not classified as hazardous to the environment.
- **Signal Word:** Not applicable.

3. Composition / Information on Ingredients

- **Chemical Name:** Sodium Starch Glycolate
- **CAS Number:** 9063-38-1
- **Purity:** $\geq 95\%$
- **Additives:** None.

4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical help if irritation persists.
- **Skin Contact:** Wash with water; no major irritation expected.
- **Eye Contact:** Rinse with clean water for 10–15 minutes.
- **Ingestion:** Non-toxic; rinse mouth with water.

5. Fire-Fighting Measures

- **Suitable Media:** Water spray, dry chemical, CO₂, foam.
- **Hazards:** Dust may form explosive mixture in air.
- **Protective Equipment:** Firefighters should use self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up material and place in clean, dry container.
- Ventilate area.
- Prevent spill from entering drains.

7. Handling and Storage

- **Handling:** Avoid creating dust; use with adequate ventilation.
- **Storage:** Store in cool, dry, sealed containers away from moisture.
- **Conditions to Avoid:** High humidity, water exposure.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for this product.
- **Respiratory Protection:** Dust mask recommended.
- **Eye Protection:** Safety goggles where dust may occur.
- **Skin Protection:** Normal lab gloves optional.
- **Ventilation:** Local exhaust recommended.

9. Physical and Chemical Properties

- **Appearance:** White to off-white, free-flowing powder
- **Odor:** Odorless
- **Solubility:** Swells in water
- **pH (1% solution):** 5.0–7.0
- **Moisture:** $\leq 10\%$
- **Bulk Density:** 0.5–0.7 g/mL
- **Decomposition Temperature:** $> 250^{\circ}\text{C}$

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** CO, CO₂ upon combustion.
- **Reactivity:** Not reactive under normal handling.

11. Toxicological Information

- **Toxicity:** Considered non-toxic.
- **Irritation:** Mild mechanical irritation possible due to dust.
- **Sensitization:** No known sensitizing effects.

- **Carcinogenicity:** Not classified as carcinogenic.
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12. Ecological Information

- **Eco-Toxicity:** Not expected to be harmful.
 - **Biodegradability:** Biodegradable.
 - **Bioaccumulation:** Not anticipated.
 - **Mobility:** Low mobility in soil.
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13. Disposal Considerations

- Dispose of in accordance with local regulations.
 - Not classified as hazardous waste.
 - Avoid releasing large quantities into water systems.
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14. Transport Information (DETAILED)

This section provides full detailed transport data as required:

14.1 UN Number

- **Not applicable** – Sodium Starch Glycolate is **not classified as a dangerous good** under UN transport regulations.

14.2 UN Proper Shipping Name

- **Not regulated** – No special designation required for shipping.

14.3 Transport Hazard Class

- **Not applicable** – The material does not fall under any hazard class for transportation.

14.4 Packing Group

- **Not assigned** – Material is considered non-hazardous and requires no special packing group.

14.5 Environmental Hazards

- **Marine Pollutant:** No

- **Environmentally Hazardous Substance:** No
- Product poses **minimal environmental risk** under normal transport conditions.

14.6 Special Precautions for Transport

- Keep container tightly closed to prevent moisture absorption.
- Avoid creating dust during loading/unloading.
- Use clean, dry, contamination-free packaging.

14.7 Transport in Bulk According to Annex II of MARPOL & IBC Code

- **Not applicable** – Product is not transported in bulk as per MARPOL regulations.

14.8 Additional Notes

- Suitable for transportation by **road (ADR/RID)**, **air (ICAO/IATA)**, **sea (IMDG)** without restrictions.
- No special labeling, documentation, or hazard marking needed.

15. Regulatory Information

- Complies with IP pharmaceutical standards.
- Not classified as hazardous under OSHA, REACH, or EU guidelines.
- No special regulatory restrictions.

16. Other Information

- This MSDS is believed to be accurate and reliable as of the revision date.
- The information is offered in good faith for safe handling, storage, and transport.
- Users must determine suitability for their applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.