

Material Safety Data Sheet (MSDS)

Product Name: Sodium Citrate Dihydrate Food Grade

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 Citrate Dihydrate

Synonyms: Trisodium citrate dihydrate, Citric acid trisodium salt dihydrate

Chemical Formula: $C_6H_5Na_3O_7 \cdot 2H_2O$

CAS No.: 6132-04-3

EINECS No.: 200-675-3

Use of Substance: Food additive, buffer, emulsifier, sequestrant, acidity regulator

2. Hazard Identification

Classification (GHS): Not classified as hazardous according to GHS.

Hazard Statements: None.

Precautionary Statements: Avoid dust formation and inhalation. Wash hands thoroughly after handling.

Potential Health Effects:

- **Eye Contact:** May cause mild irritation.

- **Skin Contact:** Prolonged contact may cause dryness.
- **Inhalation:** Dust may cause mild irritation to respiratory tract.
- **Ingestion:** Low toxicity; may cause mild gastrointestinal discomfort in large quantities.

3. Composition / Information on Ingredients

This product consists of Sodium Citrate Dihydrate with the chemical formula $C_6H_5Na_3O_7 \cdot 2H_2O$ and CAS Number 6132-04-3.

It is a pure food-grade material with an assay of not less than 99.0% on a dry basis. No hazardous impurities or stabilizing additives are present.

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water for 10–15 minutes. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water.
- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Ingestion:** Rinse mouth with water. Drink water to dilute. Seek medical advice if large quantities are ingested.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO_2 , dry chemical powder, or foam.
- **Special Hazards:** Combustion may produce oxides of carbon and sodium compounds.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use personal protective equipment.
- **Environmental Precautions:** Prevent entry into waterways or sewers.
- **Methods for Cleanup:** Sweep up and collect in suitable containers for disposal. Wash spill area with water.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Handle in accordance with good industrial hygiene practices.
- **Storage:** Store in a cool, dry, well-ventilated place away from moisture and incompatible materials. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use adequate ventilation.
- **Personal Protective Equipment:**
 - **Respiratory Protection:** Not normally required. Use dust mask if high dust levels occur.
 - **Eye Protection:** Safety glasses recommended.
 - **Skin Protection:** Gloves and protective clothing.
 - **Hygiene Measures:** Wash hands before breaks and after work.

9. Physical and Chemical Properties

Sodium Citrate Dihydrate is a white, crystalline powder with no odor. It has a pH of 7.5 to 9.0 (5% solution) and decomposes around 150°C. The compound is freely soluble in water, forming a clear solution, and has a density of approximately 1.7 g/cm³. Its molecular weight is 294.1 g/mol. The product is non-flammable and does not have a defined boiling or flash point due to decomposition before boiling.

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong acids, strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides, sodium oxides.
- **Conditions to Avoid:** Excessive heat and moisture.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 8,000 mg/kg (low toxicity).

- **Skin/Eye Irritation:** Mild irritant.
- **Carcinogenicity:** Not listed by IARC, NTP, or OSHA.
- **Mutagenicity / Teratogenicity:** No data indicating hazards.

12. Ecological Information

- **Ecotoxicity:** Low potential for bioaccumulation; not expected to be harmful to aquatic life.
- **Persistence and Degradability:** Readily biodegradable.
- **Mobility in Soil:** High solubility in water, low potential for adsorption.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations.
Product can be disposed of as non-hazardous waste.

14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous for transport).

UN Proper Shipping Name: Sodium Citrate Dihydrate.

Transport Hazard Class: Not classified as dangerous goods.

Packing Group: Not applicable.

Label Required: None.

Marine Pollutant: No.

Transport Guidance:

- **Road (ADR/RID):** Not regulated. Transport in clean, dry vehicles. Ensure packaging is secured to prevent damage or leakage.
- **Sea (IMDG):** Not classified as dangerous. Store containers away from water and strong oxidizers. Avoid moisture ingress.
- **Air (IATA):** Not regulated for air transport. Ensure packaging integrity and labeling.
- **Inland Waterway (ADN):** Not regulated. Avoid discharge into waterways.

Special Precautions for User:

Handle containers carefully. Protect against physical damage and moisture.

Transport in Bulk (Annex II of MARPOL and IBC Code): Not applicable.

15. Regulatory Information

- **Regulation (EC) No 1907/2006 (REACH):** Exempt or registered.
- **FDA (Food Grade):** Approved as GRAS (Generally Recognized as Safe).
- **Labeling Requirements:** Not required for non-hazardous substances.

16. Other Information

Abbreviations:

ADR – European Agreement on the International Carriage of Dangerous Goods by Road

IMDG – International Maritime Dangerous Goods

IATA – International Air Transport Association

Disclaimer:

The information provided herein is believed to be accurate and represents the best data currently available to us. Users should make their own investigation to determine suitability for their purposes.

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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.