

Material Safety Data Sheet (MSDS)

Product Name: Sodium Acetate (Trihydrate) USP 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: Sodium Acetate Trihydrate

Synonyms: Acetic acid sodium salt trihydrate

Grade: USP

Recommended Use: Pharmaceutical excipient, buffer, laboratory reagent.

2. Hazards Identification

- Not classified as hazardous under normal conditions.
- May cause mild irritation to eyes, skin, and respiratory tract.
- Not flammable but may decompose at high temperatures.

3. Composition / Information on Ingredients

Chemical Name: Sodium Acetate Trihydrate

Molecular Formula: $\text{C}_2\text{H}_3\text{NaO}_2 \cdot 3\text{H}_2\text{O}$

Molecular Weight: 136.08 g/mol

CAS No.: 6131-90-4

Concentration: 100% USP 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:** Move person to fresh air. If breathing difficulties occur, seek medical attention.
- **Ingestion:** Rinse mouth with water. Seek medical advice if large amounts are swallowed.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO_2 , foam.
- **Fire Hazards:** Non-flammable. May release carbon oxides and sodium oxides on decomposition.
- **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum without creating dust.
- Place in suitable, labeled containers for disposal.
- Ensure adequate ventilation.

7. Handling and Storage

- Handle in accordance with good industrial hygiene practices.
- Avoid contact with eyes and skin.
- Store in tightly closed containers in a cool, dry, well-ventilated place.
- Protect from moisture and heat.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protection:**
 - Respiratory: Use dust mask if dust is generated.
 - Skin: Protective gloves recommended.
 - Eyes: Safety glasses recommended.
- **Hygiene Measures:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder or granules
- **Odor:** Slight acetic acid odor
- **pH (5% solution):** 7.5 – 9.0
- **Melting Point:** 58 °C
- **Boiling Point:** Decomposes
- **Solubility:** Freely soluble in water, soluble in alcohol
- **Specific Gravity:** ~1.45 g/cm³

10. Stability and Reactivity

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

11. Toxicological Information

- **Acute Toxicity:** Low toxicity (LD50 Oral rat: 3530 mg/kg approx.)
- **Skin/Eye Irritation:** Mild irritant.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Mutagenicity / Teratogenicity:** No known effects.

12. Ecological Information

- **Eco-toxicity:** Not expected to be harmful to the environment.
- **Persistence/Degradability:** Biodegradable.
- **Mobility:** Readily soluble in water, may alter local pH.

13. Disposal Considerations

- Dispose of in accordance with local, state, and national regulations.
- Avoid release into environment.
- Can be disposed of with regular chemical waste after neutralization.

14. Transport Information (Detailed)

UN Number: Not regulated

UN Proper Shipping Name: Sodium Acetate Trihydrate

Transport Hazard Class: Not classified as hazardous for transport

Packing Group: Not applicable

Environmental Hazards: Not considered environmentally hazardous

Special Precautions: Avoid contact with strong oxidizers during transport

Transport by Road (ADR/RID): Not restricted

Transport by Sea (IMDG): Not restricted; no marine pollutant

Transport by Air (IATA/ICAO): Not restricted

Additional Notes:

- Material is stable and non-hazardous during transport.
- Ensure packaging prevents contact with moisture.
- Use sealed, labeled containers.
- Emergency response guide not required for this material.

15. Regulatory Information

- Not classified as hazardous according to OSHA, EU, or GHS standards.
- Listed in pharmacopeias (USP, BP, EP).
- Complies with REACH standards (if applicable).

16. Other Information

The information provided is believed to be accurate and represents the best knowledge currently available. It is intended as a guide for safe handling, storage, and use of the material.

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