SAFETY DATA SHEET – SODIUM ACETATE TRIHYDRATE

Supplier:
HD Chemicals LTD
9 Scott Business Park, PL2 2PB
Plymouth, United Kingdom

Date of issue: June 27, 2025
Version: 1

SECTION 1 – Identification

- **Product Name:** Sodium Acetate Trihydrate
- **Synonyms:** Acetic acid, sodium salt trihydrate
- **CAS Number:** 6131-90-4
- **Molecular Formula:** $CH_3COONa \cdot 3H_2O$
- **Molecular Weight:** 136.08 g/mol
- **Recommended Use:** Laboratory reagent, industrial applications
- **Supplier Contact:** HD Chemicals LTD, 9 Scott Business Park, PL2 2PB Plymouth, UK

SECTION 2 – Hazard Identification

GHS Classification:

- Eye Irritation – Category 2A (H319)
- Specific Target Organ Toxicity – Single Exposure, Category 3 (H335 – respiratory)
- Skin Irritation – Category 3 (H316, precautionary only)

Label Elements (CLP/GHS):



Hazard Statements:

- **H319** – Causes serious eye irritation
- **H335** – May cause respiratory irritation
- **H316** – Causes mild skin irritation *(not classified, but precautionary)*

Precautionary Statements:

- **P261** – Avoid breathing dust
- **P264** – Wash hands thoroughly after handling
- **P280** – Wear protective gloves/eye protection
- **P305 + P351 + P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- **P337 + P313** – If eye irritation persists: Get medical advice/attention
- **P304 + P340** – IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- **P301 + P312** – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

SECTION 3 – Composition/Information on Ingredients

Chemical Name	CAS No.	% by Weight	Classification
Sodium Acetate Trihydrate	6131-90-4	≥99%	Eye Irrit. 2A; STOT SE 3

SECTION 4 – First Aid Measures

- **Inhalation:** Remove to fresh air. Get medical attention if symptoms develop
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if unwell
- **Skin Contact:** Wash affected skin with soap and water. Seek medical attention if irritation persists
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists

SECTION 5 – Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, carbon dioxide, alcohol-resistant foam
- **Hazards from Combustion:** Emits acetic acid fumes when heated
- **Advice for Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective gear

SECTION 6 – Accidental Release Measures

- Avoid creating dust

- Ventilate area
- Sweep up and place in suitable container
- Clean spill area with water
- Use non-sparking tools and avoid inhalation of dust

SECTION 7 – Handling and Storage

- **Handling:** Avoid breathing dust. Avoid contact with skin and eyes. Use with adequate ventilation
- **Storage:** Store in tightly closed container in a dry, cool, and well-ventilated place

SECTION 8 – Exposure Controls/Personal Protection

- **Exposure Limits:** No established limits
- **Engineering Controls:** Use local exhaust or general ventilation
- **Personal Protective Equipment:**
  - **Eyes:** Chemical goggles
  - **Skin:** Protective gloves and clothing
  - **Respiratory:** NIOSH-approved particulate respirator if dust is generated

SECTION 9 – Physical and Chemical Properties

- **Appearance:** Colorless crystalline solid
- **Odor:** Slight acetic acid odor
- **pH (1% solution):** ~8.9
- **Melting Point:** ~58°C (deliquescent)
- **Boiling Point:** Decomposes above 120°C (loses water)
- **Solubility in Water:** 76 g/100 mL at 0°C
- **Density:** ~1.45 g/cm³
- **Vapor Pressure:** Not applicable
- **Flammability:** Non-flammable under normal conditions

SECTION 10 – Stability and Reactivity

- **Stability:** Stable under normal temperatures and pressures
- **Hazardous Decomposition Products:** Acetic acid, carbon oxides
- **Incompatible Materials:** Strong oxidizers, nitric acid, diketene
- **Hazardous Reactions:** None expected under normal use

SECTION 11 – Toxicological Information

- **Acute Toxicity:**
  - Oral (rat) LD50: 3530 mg/kg
  - Skin (rabbit) LD50: >10,000 mg/kg
- **Eye Irritation:** Causes moderate eye irritation
- **Skin Irritation:** May cause mild irritation
- **Inhalation:** May cause respiratory tract irritation
- **Carcinogenicity:** Not classified as carcinogenic (IARC, NTP, OSHA)

SECTION 12 – Ecological Information

- **Aquatic Toxicity:**
  - LC50 (fish): ~5000 mg/L
  - EC50 (daphnia): ~5800 mg/L
  - EC50 (bacteria): ~7200 mg/L
- **Environmental Fate:** Biodegradable
- **Bioaccumulation:** Not expected

SECTION 13 – Disposal Considerations

- Dispose in accordance with local/regional/national regulations
- Do not release into drains or environment
- Contaminated packaging should be handled as product waste

SECTION 14 – Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Not classified as hazardous
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** None known

SECTION 15 – Regulatory Information

- **REACH/TSCA Inventory:** Listed

- **SARA 311/312:** Acute Health Hazard
- **California Prop 65:** Not listed
- **WHMIS (Canada):** Non-controlled
- **Other Information:** Not subject to any special restrictions

SECTION 16 – Other Information

- **NFPA Ratings:**
  - Health: 1
  - Flammability: 1
  - Reactivity: 0
- **HMIS Ratings:**
  - Health: 1
  - Flammability: 1
  - Physical Hazard: 0

This Safety Data Sheet (SDS) has been prepared to the best of our knowledge, based on currently available information and in accordance with applicable regulations. The information provided herein is believed to be accurate at the time of preparation; however, **HD Chemicals LTD makes no warranties, expressed or implied, and assumes no liability for the accuracy, completeness, or suitability of the information**. It is the responsibility of the user to ensure proper and safe use of the product in accordance with applicable laws and regulations. This SDS is intended as a guide for handling, storage, and disposal and is not a guarantee of product properties.