
Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Sodium acetate trihydrate**Synonyms:** Acetic acid, sodium salt trihydrate**CAS-No:** 6131-90-4**EC-No.:** 204-823-8**Molecular Formula:** $C_2H_3NaO_2 \cdot 3H_2O$ **REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration according to Article 2 REACH regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 - 40040085

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****REGULATION (EC) No 1272/2008.**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:**Labelling according Regulation (EC) No 1272/2008.**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances:** Sodium acetate trihydrate**3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
Sodium acetate trihydrate	6131-90-4	204-823-8	> 95

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:****• General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

• If inhaled

Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

• If Contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

- **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed:

Stomach/intestinal disorders

4.3. Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media- For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Not Combustible.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Vapours are heavier than air and may spread along floors.

5.3. Advice for firefighters:

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry, well-ventilated place.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Contains no substances with occupational exposure limit values.

8.2. Exposure Controls:

Appropriate Engineering Controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

Personal Protective Equipment:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection

Safety glasses

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
--------------	----------------------------------

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Required when dusts are generated. Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 8.5 - 10 at 408 g/l at 25 °C
- **Melting Point:** 58 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Relative Density:** No data available
- **Density:** 1.42 g/cm³ at 20 °C
- **Auto-Ignition Temperature:** 607 °C
- **Decomposition Temperature:** > 120 °C Elimination of water of crystallization
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Water Solubility:** Soluble at 408 g/ltr at 20°C

9.2. Other information:**Molecular Formula:** $C_2H_3NaO_2 \cdot 3H_2O$ **Molecular Weight:** 136.08 g/mol**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity:**

No data available

10.2. Chemical stability:

Stable under recommended storage conditions. Hygroscopic.

10.3. Possibility of hazardous reactions:

Risk of explosion with: nitrites

Exothermic reaction with: Fluorine

10.4. Conditions to avoid:

Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water. Strong heating.

10.5. Incompatible materials:

Strong oxidizing agents, Strong acids.

10.6. Hazardous decomposition products:

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides

Other decomposition products - No data available

In the event of fire: see section 5

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute Oral toxicity**

LD50 Rat: ca. 2,700 mg/kg

OECD Test Guideline 401

(anhydrous substance)

Symptoms: Stomach/intestinal disorders

Acute inhalation toxicity

LC50 Rat: > 5.6 mg/l; 4 h; dust/mist

OECD Test Guideline 403

(anhydrous substance)

Symptoms: Possible damages:, slight mucosal irritations

Acute dermal toxicity

LD50 Rabbit: > 10,000 mg/kg

anhydrous substance (RTECS)

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

(anhydrous substance)

Eye irritation

Rabbit

Result: No eye irritation

OECD Test Guideline 405

(anhydrous substance)

Sensitisation

No data available

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

Result: negative

Method: OECD Test Guideline 471

(anhydrous substance)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Teratogenicity

Did not show teratogenic effects in animal experiments. (IUCLID)

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further Information:

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:****Toxicity to fish**

Semi-static test LC50 Danio rerio (zebra fish): > 100 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203

(anhydrous substance)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 Daphnia magna (Water flea): > 1,000 mg/l; 48 h

Directive 67/548/EEC, Annex V, C.2.

(anhydrous substance)

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

Toxicity to algae

EC50 Skeletonema costatum (marine diatom): > 1,000 mg/l; 72 h
(anhydrous substance) (ECHA)

NOEC Skeletonema costatum (marine diatom): > 1,000 mg/l; 72 h
(anhydrous substance) (ECHA)

Toxicity to bacteria

EC50 Pseudomonas putida: 7,200 mg/l; 18 h
(anhydrous substance) (IUCLID)

12.2 Persistence and degradability:

Biodegradability: 99 %; 28 d; aerobic
C.4-A of the COUNCIL REGULATION (EC) No 440/2008
(anhydrous substance) Readily biodegradable

12.3 Bioaccumulate potential:

Partition coefficient: n-octanol/water
Log Pow: -4.22
(anhydrous substance)
Bioaccumulation is not expected.

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
---------------------	---

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:			
Not relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National legislation

Storage class 10 - 13

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

Created: 06/10/2020

Material Safety Data Sheet

Product Name	<u>Sodium acetate trihydrate</u>
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