SECTION 1: Identification

1.1. Identification

Product form: Substance
Substance name: Sodium Acetate Trihydrate
CAS-No.: 6131-90-4
Formula: NaC₂H₃O₂ • 3H₂O

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Pharmaceuticals

1.3. Supplier

Manufacturer
Jost Chemical Co.
8150 Lackland Rd.
Saint Louis, Missouri 63114
T 314-428-4300 - F 314-428-4366
sds@jostchemical.com - www.jostchemical.com

1.4. Emergency telephone number

Emergency number: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
United States and Canada: 1-800-424-9300 / +1 703-527-3887
Global: +1 703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling
No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Acetate Trihydrate (Main constituent)</td>
<td>(CAS-No.) 6131-90-4</td>
<td>100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice.
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. Wash skin with plenty of water.
# Sodium Acetate Trihydrate

## Safety Data Sheet

**according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-aid measures after eye contact</td>
<td>Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.</td>
</tr>
</tbody>
</table>

## 4.2. Most important symptoms and effects (acute and delayed)

### Potential Adverse human health effects and symptoms

- **Non-toxic if swallowed** (LD50 oral, rat > 5000 mg/kg). Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). Slightly irritant to skin. Slightly harmful by inhalation. Non-toxic by inhalation (LC50 inh, rat > 50 mg/l/4h). Slightly irritant to eyes.

### Symptoms/effects after inhalation

- EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.

### Symptoms/effects after skin contact

- Slight irritation.

### Symptoms/effects after eye contact

- Slight irritation.

### Symptoms/effects after ingestion


### Chronic symptoms


## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media


- **Unsuitable extinguishing media**: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

### 5.2. Specific hazards arising from the chemical

- **Fire hazard**: DIRECT FIRE HAZARD: Not easily combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

- **Explosion hazard**: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.

- **Reactivity**: Reacts violently with (strong) oxidizers.

### 5.3. Special protective equipment and precautions for fire-fighters

- **Precautionary measures fire**: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.

- **Firefighting instructions**: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.

- **Protection during firefighting**: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel


- **Measures in case of dust release**: In case of dust production: keep upwind. Dust production: have neighborhood close doors and windows. In case of dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosion proof appliances/lighting equipment.

#### 6.1.2. For emergency responders

- **Protective equipment**: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

For containment

- Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing.
- Powdered form: no compressed air for pumping over spills. If reacting: dilute toxic gas/vapor with water spray. Take account of toxic/corrosive precipitation water.

Methods for cleaning up

- Mechanically recover the product. Prevent dust cloud formation. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Contaminated surfaces: clean (treat) with an excess of water. Wash clothing and equipment after handling.

Other information

- Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling


Hygiene measures

- Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

- Comply with applicable regulations. Does not require any specific or particular technical measures.

Storage conditions

- Store in a well-ventilated place. Keep cool.

Incompatible products

- Oxidizing agent.

Heat-ignition

- KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage

- KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

Storage area

- Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Meet the legal requirements.

Special rules on packaging

- SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

- Ensure good ventilation of the work station.

Environmental exposure controls

- Avoid release to the environment.

8.3. Individual protection measures(Personal protective equipment)

Personal protective equipment:

Materials for protective clothing:

- GIVE GOOD RESISTANCE: butyl rubber. PVC

Hand protection:

- Gloves

Eye protection:

- Safety glasses. In case of dust production: protective goggles. Safety glasses

Skin and body protection:
**Sodium Acetate Trihydrate**  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Protective clothing**

**Respiratory protection:**

Dust production: dust mask with filter type P1

**Personal protective equipment symbol(s):**

---

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Granules.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 - 9.0 (5 %)</td>
</tr>
<tr>
<td>Melting point</td>
<td>58 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.5</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>1450 kg/m³</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>136.08 g/mol</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water. Soluble in ethanol. Soluble in ether. Water: &gt; 50 g/100ml Ethanol: 5.2 g/100ml</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 600 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>58 °C</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

- VOC content: 0 %
- Other properties: Substance has basic reaction.

---

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts violently with (strong) oxidizers.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.
Sodium Acetate Trihydrate
Safety Data Sheet

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
Oxidizing materials.

10.6. Hazardous decomposition products
Reacts violently with (some) acids: release of corrosive gases/vapors (acetic acid vapors). Decomposes on exposure to temperature rise: release of corrosive gases/vapors (acetic acid vapors).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>pH</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
</tr>
<tr>
<td>pH</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
</tr>
</tbody>
</table>

Aspiration hazard                  | Not classified |
(Not applicable)                    |
Viscosity, kinematic                | No data available |
Potential Adverse human health effects and symptoms | Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). Slightly irritant to skin. Slightly harmful by inhalation. Non-toxic by inhalation (LC50 inh, rat > 50 mg/l/4h). Slightly irritant to eyes. |
Symptoms/effects after inhalation   | EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation. |
Symptoms/effects after skin contact | Slight irritation. |
Symptoms/effects after eye contact  | Slight irritation. |

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
</tbody>
</table>

07/03/2018 EN (English US) 5/7
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF other aquatic organisms</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste): LWCA (the Netherlands): KGA category 03.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Product/Packaging disposal recommendations: Remove waste in accordance with local and/or national regulations. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Dissolve or mix with a combustible solvent. Specific preliminary treatment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated

Transportation of Dangerous Goods

Proper Shipping Name (Transportation of Dangerous Goods): Not regulated for transport

Transport by sea

Proper Shipping Name (IMDG): Not regulated for transport

Air transport

Proper Shipping Name (IATA): Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| Sodium Acetate Trihydrate                          | CAS-No. 6131-90-4 | 100% |

15.2. International regulations

CANADA

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>
Sodium Acetate Trihydrate
Safety Data Sheet

EU-Regulations
No additional information available

National regulations

<table>
<thead>
<tr>
<th>Sodium Acetate Trihydrate (6131-90-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the AIICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>The anhydrous form of this material is listed on the United States TSCA (Toxic Substance Control Act) inventory</td>
</tr>
</tbody>
</table>

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 06/11/2018

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.

Hazard Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.