SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Substance
Substance name: Sodium Acetate Trihydrate
EC-No.: 204-823-8
CAS-No.: 6131-90-4
Formula: NaC₂H₃O₂ • 3H₂O

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses
Use of the substance/mixture: Pharmaceuticals

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

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

Distributor: JOST CHEMICAL EUROPE SPRL
rue du Bois Portal n° 30/1-3
B - 5300 Andenne - BELGIQUE
T +32 85-552655 - F +32 85-552654
info@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: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

2.3. Other hazards

PBT: not yet assessed
vPvB: not yet assessed

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>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Acetate Trihydrate</td>
<td>(CAS-No.) 6131-90-4</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 204-823-8</td>
<td></td>
</tr>
</tbody>
</table>

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 Regulation (EC) No. 453/2010

**First-aid measures after eye contact**: 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.

**First-aid measures after ingestion**: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Call a poison center or a doctor if you feel unwell.

**SECTION 6: Accidental release measures**

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

- **For non-emergency personnel**
  - **Measures in case of dust release**: In case of dust production: keep upwind. Dust production: have neighbourhood 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/explosionproof apparatus/lighting equipment.

- **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/vapour 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.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**


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

**5.2. Special hazards arising from the substance or mixture**

- **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.

- **Hazardous decomposition products in case of fire**: Upon combustion: CO and CO2 are formed.

**5.3. Advice for firefighters**

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

- **Firefighting instructions**: Cool tanks/drumas 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 4: Transport information**

**4.1. Transport hazard classes**

- **Hazard class**
  - Flammable liquid: No
  - Flammable gas: No
  - Explosive: No
  - Oxidizer: No
  - Poison: No
  - Corrosive: No
  - Infectious: No

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

- **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.


- **Chronic symptoms**: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

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

Treat symptomatically.

**4.4. Specific actions to be taken in case of fire**

Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

**4.5. Special hazards in case of fire**


**5.1. Extinguishing media**


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

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- **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

**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


### 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 and ignition sources**: 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.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

**Appropriate engineering controls**: Ensure good ventilation of the work station.

**Personal protective equipment**: Dust production: dust mask with filter type P1. Gloves. Safety glasses.

**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**: Protective clothing

**Respiratory protection**: Dust production: dust mask with filter type P1

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

- [ ]

**Environmental exposure controls**: Avoid release to the environment.
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>Molecular mass</td>
<td>136.08 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 - 9.0 (5 %)</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</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>Auto-ignition temperature</td>
<td>&gt; 600 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>58 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.5</td>
</tr>
<tr>
<td>Density</td>
<td>1450 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water. Soluble in ethanol. Soluble in ether.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</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>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content</td>
<td>0 %</td>
</tr>
<tr>
<td>Other properties</td>
<td>Substance has basic reaction.</td>
</tr>
</tbody>
</table>

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.

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/vapours (acetic acid vapours). Decomposes on exposure to temperature rise: release of corrosive gases/vapours (acetic acid vapours).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5200 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 10000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>Causes serious eye damage.</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 - 9.0 (5 %)</td>
</tr>
</tbody>
</table>
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according to Regulation (EC) No. 453/2010

12/7/2015 (Version: 1.0)
EN (English)
5/7

Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met)
pH: 7.5 - 9.0 (5 %)
Respiratory or skin sensitisation: Not classified (Lack of data)
Germ cell mutagenicity: Not classified (Lack of data)
Carcinogenicity: Not classified (Lack of data)
Reproductive toxicity: Not classified (Lack of data)
STOT-single exposure: Not classified (Lack of data)
STOT-repeated exposure: Not classified (Lack of data)
Aspiration hazard: Not classified (Lack of data)
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.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Harmful to aquatic life.
Ecology - air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Dangerous for the environment: Not classified
Chronic aquatic toxicity: Not classified

Sodium Acetate Trihydrate (6131-90-4)
LC50 fish 1 100 mg/l (964 h, Brachydanio rerio)
EC50 Daphnia 1 > 1000 mg/l (48 h, Daphnia magna)

12.2. Persistence and degradability
Sodium Acetate Trihydrate (6131-90-4)
Persistence and degradability: Readily biodegradable in water.

12.3. Bioaccumulative potential
Sodium Acetate Trihydrate (6131-90-4)
BCF other aquatic organisms 1 3.162 (BCFWIN, Calculated value, Anhydrous form)
Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
Sodium Acetate Trihydrate (6131-90-4)
PBT: not yet assessed
vPvB: not yet assessed

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment 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 dump. 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
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): Not applicable
UN-No. (IMDG): Not applicable
Sodium Acetate Trihydrate
Safety Data Sheet
according to Regulation (EC) No. 453/2010

UN-No. (IATA): Not applicable
UN-No. (ADN): Not applicable
UN-No. (RID): Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR): Not regulated for transport
Proper Shipping Name (IMDG): Not regulated for transport
Proper Shipping Name (IATA): Not regulated for transport
Proper Shipping Name (ADN): Not regulated for transport
Proper Shipping Name (RID): Not regulated for transport

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR): Not applicable

IMDG
Transport hazard class(es) (IMDG): Not applicable

IATA
Transport hazard class(es) (IATA): Not applicable

ADN
Transport hazard class(es) (ADN): Not applicable

RID
Transport hazard class(es) (RID): Not applicable

14.4. Packing group
Packing group (ADR): Not applicable
Packing group (IMDG): Not applicable
Packing group (IATA): Not applicable
Packing group (ADN): Not applicable
Packing group (RID): Not applicable

14.5. Environmental hazards
Dangerous for the environment: No
Marine pollutant: No
Other information: No supplementary information available

14.6. Special precautions for user
Overland transport
Transport regulations (ADR): Not subject

Transport by sea
Transport regulations (IMDG): Not subject

Air transport
Transport regulations (IATA): Not subject

Inland waterway transport
Transport regulations (ADN): Not subject

Rail transport
Transport regulations (RID): Not subject

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Sodium Acetate Trihydrate is not on the REACH Candidate List
Sodium Acetate Trihydrate is not on the REACH Annex XIV List

VOC content: 0 %
Directive 2012/18/EU (SEVESO III)
15.1.2. National regulations
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
The anhydrous form of this material is listed on the United States TSCA (Toxic Substance Control Act) inventory

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This sheet was updated (refer to the date at the top of this page).</td>
</tr>
</tbody>
</table>

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.