1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**
Sodium acetate trihydrate

**Cat No.**
BP334-1; BP334-500; S207-10; S209-3; S209-10; S209-50; S209-500; S220-1; S607-25; S607-100; S607-212; S607-500; S608-3; S608-12; S608-50; S608-500; S609-12; S609-25; S609-100; S609-212; S609-500

**Synonyms**
Acetic acid, sodium salt trihydrate

**Recommended Use**
Laboratory chemicals

**Company**
Fisher Scientific
One Regents Lane
Fair Lawn, NJ 07410
Tel: (201) 786-7100

**Emergency Telephone Number**
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 703-527-3887

2. HAZARDS IDENTIFICATION

**CAUTION!**

**Emergency Overview**
May cause eye, skin, and respiratory tract irritation. The toxicological properties have not been fully investigated.
Hygroscopic.

**Appearance**
White

**Physical State**
Solid

** odor odorless**

**Target Organs**
None known.

**Potential Health Effects**

**Acute Effects**

**Principle Routes of Exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>May cause irritation</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause irritation</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause irritation of respiratory tract</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea</td>
</tr>
</tbody>
</table>

**Chronic Effects**
Mutagenic effects have occurred in experimental animals.

See Section 11 for additional Toxicological information.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium acetate trihydrate</td>
<td>6131-90-4</td>
<td>100</td>
</tr>
<tr>
<td>Sodium acetate</td>
<td>127-09-3</td>
<td>0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

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

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Ingestion: Do not induce vomiting. Obtain medical attention.

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Method: No information available.

Autoignition Temperature: 607°C / 1124.6°F

Explosion Limits
- Upper: No data available
- Lower: No data available

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

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: No information available.

- Sensitivity to mechanical impact: No Information available.
- Sensitivity to static discharge: No Information available.

Specific Hazards Arising from the Chemical: Dust can form an explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions
Should not be released into the environment.

Methods for Containment and Clean Up
Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling
Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures
Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eyewear Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid

Appearance
White

odor
odorless

Odor Threshold
No information available.

pH
8-9.5

Vapor Pressure
100 g/l water (20 C)

Vapor Density
No information available.

Viscosity
No information available.

Boiling Point/Range
No information available.

Melting Point/Range
58°C / 136.4°F

Decomposition temperature °C
300 °C

Flash Point
No information available.

Evaporation Rate
No information available.

Specific Gravity
1.45

Solubility
Soluble in water Ether
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>136.08</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C2 H3 Na O2 . 3 H2 O</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- **Stability**: Hygroscopic.
- **Conditions to Avoid**: Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.
- **Incompatible Materials**: Strong acids
- **Hazardous Decomposition Products**: Thermal decomposition can lead to release of irritating gases and vapors
- **Hazardous Polymerization**: Hazardous polymerization does not occur
- **Hazardous Reactions**: None under normal processing.

11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

<table>
<thead>
<tr>
<th>Component Information</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium acetate</td>
<td>3530 mg/kg (Rat)</td>
<td>10 g/kg (Rabbit)</td>
<td>30 g/m³ (Rat) 1 h</td>
</tr>
</tbody>
</table>

- **Irritation**: No information available.
- **Toxicologically Synergistic Products**: No information available.

**Chronic Toxicity**

- **Carcinogenicity**: There are no known carcinogenic chemicals in this product

- **Sensitization**: No information available.
- **Mutagenic Effects**: Mutagenic effects have occurred in experimental animals.
- **Reproductive Effects**: No information available.
- **Developmental Effects**: No information available.
- **Teratogenicity**: No information available.
Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Endocrine Disruptor Information

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Floa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium acetate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>= 7200 mg/L EC50</td>
<td>EC50 48 h: 5800 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pseudomonas putida 18 h</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

IATA
Not regulated

IMDG/IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NSDL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AiCS</th>
<th>CHINA</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium acetate trihydrate</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>
## 15. REGULATORY INFORMATION

| Sodium acetate | X | X | - | 204-823-8 | - | X | X | X | X | KE-00061 | X |
|----------------|---|---|---|-----------|---|---|---|---|---|---|---------|---|

Legend:
- X - Listed
- E - Indicates a substance that is the subject of a Section 5(a) Consent order under TSCA.
- F - Indicates a substance that is the subject of a Section 5(l) Rule under TSCA.
- N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - Indicates a commenced PMN substance
- R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Sites Reports (40 CFR 710(b)).
- Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

**TSCA 12(b)** Not applicable

**SARA 313**
Not applicable

**SARA 311/312 Hazardous Categorization**

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

**Clean Water Act**
Not applicable

**Clean Air Act**
Not applicable

**OSHA**
Not applicable

**CERCLA**
Not Applicable

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Not applicable

### U.S. Department of Transportation

<table>
<thead>
<tr>
<th>Reportable Quantity (RQ)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Marine Pollutant</td>
<td>N</td>
</tr>
</tbody>
</table>
DOT Severe Marine Pollutant  N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade  No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

Prepared By  Regulatory Affairs
Thermo Fisher Scientific
Tel: (412) 490-8929

Creation Date  01-Feb-2010
Print Date  01-Feb-2010

Revision Summary  "***", and red text indicates revision

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS