

## Sodium Acetate Trihydrate

### Section 1 - Chemical Product and Company Identification

Substance: Sodium Acetate Trihydrate

Recommended use : Laboratory chemicals, Testing, Research and Industrial use

Restriction of use : Not for use other than for non-drinking, testing, research and industrial purposes

Company Identification

Company : OCI Company Ltd.

Address : 94, Sogong-ro, Jung-gu, Seoul, Korea

Tel No. : 82 - 2 - 727 - 9494

### Section 2 - Hazards Identification

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|-------------------------------------|---------------|
| 1) Hazard Classification            | Not available |
| 2) Warning signal                   |               |
| Symbol                              | Not available |
| Signal word                         | Not available |
| Hazard statement                    | Not available |
| Prevention precautionary statements | Not available |
| 3) NFPA                             |               |
| Health Rating                       | 1             |
| Flammability Rating                 | 1             |
| Reactivity Rating                   | 0             |

### Section 3 - Composition, Information on Ingredients

Component : Sodium Acetate Trihydrate

CAS No. : 6131-90-4

Content : 100%

### Section 4 - First Aid Measures

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Most important symptoms/effects, acute and delayed Symptoms:** May cause skin and eye irritation.

**Indication of immediate medical attention and special treatment needed Treatment:** Treat symptomatically.

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## Section 5 - Fire Fighting Measures

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**General fire hazards:** In case of fire and/or explosion do not breathe fumes.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, dry powder or carbon dioxide.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** Dust may form explosive mixture with air.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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## Section 6 - Accidental Release Measures

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**Personal precautions, protective equipment and emergency procedures:** Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Eliminate sources of ignition. Shovel up and place in a container for salvage or disposal. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Inform authorities if large amounts are involved.

**Environmental precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

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## Section 7 - Handling and Storage

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**Precautions for safe handling:** Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Store in a well-ventilated place.

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## Section 8 - Exposure Controls, Personal Protection

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**Control parameters**

**Occupational exposure limits** None of the components have assigned exposure limits.

**Appropriate engineering controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection:** Wear protective gloves.

**Other:** Wear suitable protective clothing.

**Respiratory protection:** During dust-raising work: Dust mask/respirator.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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## Section 9 - Physical and Chemical Properties

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### Appearance

**Physical state:** Solid

**Form:** Powder

**Color:** White

**Odor:** Odorless

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point/freezing point:** 79 °C

**Initial boiling point and boiling range:** 120 ~ 123 °C

**Flash Point:** : 300 °C (closed cup)

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Upper/lower limit on flammability or explosive limits:** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Relative density:** 1.4442 (g/cm<sup>3</sup> 15°C)

### Solubility(ies)

**Solubility in water:** 649781 mg/l (25°C)

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-ignition temperature:** 607 °C

**Decomposition temperature:** No data available.

**Viscosity:** No data available.

**Molecular weight:** 137.11

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## Section 10 - Stability and Reactivity

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**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heat, sparks, flames. Dust clouds may be explosive under certain conditions.

**Incompatible materials:** Strong oxidizing agents. Acids.

**Hazardous decomposition products:** Carbon dioxide Carbon monoxide Sodium oxides

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## Section 11 - Toxicological Information

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### Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May cause irritation to the respiratory system.

**Skin contact:** May cause irritation.

**Eye contact:** May irritate eyes.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

**Oral Product:** LD 50 (Rat): 3,500 mg/kg

**Dermal Product:** No data available.

**Inhalation Product:** No data available.

**Repeated dose toxicity Product:** No data available.

**Skin corrosion/irritation Product:** May cause skin irritation.

**Serious eye damage/eye irritation Product:** May irritate eyes.

**Respiratory or skin sensitization Product:** Not a skin sensitizer.

**Carcinogenicity Product:** This substance has no evidence of carcinogenic properties.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

### Germ cell mutagenicity

**In vitro Product:** No mutagenic components identified

**In vivo Product:** No mutagenic components identified

**Reproductive toxicity Product:** No components toxic to reproduction

**Specific target organ toxicity - single exposure Product:** None known.

**Specific target organ toxicity - repeated exposure Product:** None known.

**Aspiration hazard Product:** Not classified

**Other effects:** None known.

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## Section 12 - Ecological Information

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### Acute hazards to the aquatic environment:

**Fish Product:** No data available.

**Aquatic invertebrates Product:** No data available.

### Chronic hazards to the aquatic environment:

**Fish Product:** No data available.

**Aquatic invertebrates Product:** No data available.

**Toxicity to Aquatic Plants Product:** No data available.

### Persistence and degradability

**Biodegradation Product:** There are no data on the degradability of this product.

**BOD/COD ratio Product:** No data available.

#### **Bioaccumulative potential**

**Bioconcentration factor (BCF) Product:** No data available on bioaccumulation.

**Partition coefficient n-octanol / water (log Kow) Product:** No data available.

**Mobility in soil:** The product is water soluble and may spread in water systems.

**Other adverse effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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### **Section 13 - Disposal Considerations**

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**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

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### **Section 14 - Transport Information**

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UN Number: Not regulated

Shipping Name: Not applicable

Hazard Class: Not applicable

Packing Group: Not applicable

Marine Pollutant: : No data available

Safety measures : Not applicable

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### **Section 15 - Regulatory Information**

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#### **US federal regulations**

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

##### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

##### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

##### **Superfund amendments and reauthorization act of 1986 (SARA)**

##### **Hazard categories**

**X** Acute (Immediate)    Chronic (Delayed)    Fire    Reactive    Pressure Generating

##### **SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

##### **SARA 304 Emergency release notification**

None present or none present in regulated quantities.

##### **SARA 311/312 Hazardous chemical**

None present or none present in regulated quantities.

##### **SARA 313 (TRI reporting)**

None present or none present in regulated quantities.

##### **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US state regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Switzerland Consolidated Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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**Section 16 - Other Information**

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Sources : KOSHA, National Emergency Management Agency

Issue date : 04/20/2016

Last updated date : 01/02/2020

Revision number : 1