1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sodium citrate dihydrate
Product Number: W302600
Brand: Aldrich
Company: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO  63103
USA
Telephone: +1 800-325-5832
Fax: +1 800-325-5052
Emergency Phone #: (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Citric acid trisodium salt dihydrate
Sodium citrate tribasic dihydrate
Trisodium citrate dihydrate

Formula: Na3C6H5O7 · 2H2O
Molecular Weight: 294.1 g/mol

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Trisodium citrate</td>
<td>6132-04-3</td>
<td>200-675-3</td>
<td>-</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
No known OSHA hazards

HMIS Classification
Health Hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion  
May be harmful if swallowed.

4. FIRST AID MEASURES

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flammable properties
Flash point  no data available
Ignition temperature no data available

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid dust formation.

Environmental precautions
Do not let product enter drains.

Methods for cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection
For prolonged or repeated contact use protective gloves.

Eye protection
Safety glasses

Hygiene measures
General industrial hygiene practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form powder
Colour white

Safety data
pH 7.5 - 9 at 29.4 g/l at 25 °C (77 °F)
Melting point > 300 °C (> 572 °F)
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility 29.4 g/l at 20 °C (68 °F) - completely soluble

10. STABILITY AND REACTIVITY

Storage stability
 Stable under recommended storage conditions.

Materials to avoid
Strong oxidizing agents

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Irritation and corrosion
no data available

Sensitisation
no data available

Chronic exposure
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
### Potential Health Effects

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### 12. ECOLOGICAL INFORMATION

- **Elimination information (persistence and degradability)**
  - no data available
- **Ecotoxicity effects**
  - no data available
- **Further information on ecology**
  - no data available

### 13. DISPOSAL CONSIDERATIONS

- **Contaminated packaging**
  - Dispose of as unused product.

### 14. TRANSPORT INFORMATION

- **DOT (US)**
  - Not dangerous goods
- **IMDG**
  - Not dangerous goods
- **IATA**
  - Not dangerous goods

### 15. REGULATORY INFORMATION

- **OSHA Hazards**
  - No known OSHA hazards
- **TSCA Status**
  - On TSCA Inventory
- **DSL Status**
  - All components of this product are on the Canadian DSL list.
- **SARA 302 Components**
  - SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components**
  - SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- **SARA 311/312 Hazards**
  - No SARA Hazards
- **Massachusetts Right To Know Components**
  - No Components Listed
- **Pennsylvania Right To Know Components**
  - No Components Listed

| CAS-No. | Revision Date |
Trisodium citrate

New Jersey Right To Know Components

Trisodium citrate

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION