

**MATERIAL SAFETY DATA SHEET****Product Name:** Sodium citrate dihydrate**CAS No.:** 6132-04-3**Version:** 0**1. Identification**

**Product Code** : 90266, 90584  
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**2. Composition/Information on Ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
SODIUM CITRATE DIHYDARTE	6132-04-3	99-100 %

**3. Hazards Identification**

**Hazard classification** : Not classified  
**Labels elements**  
**Hazard symbol** : No symbol  
**Signal word** : Warning.  
**Hazard statement** : May form combustible dust concentrations in air.  
**Precautionary statement**  
**Prevention** : Prevent dust accumulation to minimize explosion hazard.  
**Other hazards which do not result in GHS classification** : None.

**4. First Aid Measures**

**General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. 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 occur.  
**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.

**MATERIAL SAFETY DATA SHEET****Product Name:** Sodium citrate dihydrate**CAS No.:** 6132-04-3**Version:** 0**Most important symptoms/effects, acute and delayed** : No data available.**Indication of immediate medical attention and special treatment needed** : No data available.**5. Fire fighting measures****General fire hazards** : In case of fire and/or explosion do not breathe fumes. Dust may form explosive mixture with air.**Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** : Water spray. Carbon dioxide Dry chemical.**Unsuitable extinguishing media** : None known.**Specific hazards arising from the chemical** : During fire, gases hazardous to health may be formed.**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.**6. Accidental Release Measures****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.**Methods and material for containment and cleaning up** : Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.**Environmental precautions** : Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so.

**MATERIAL SAFETY DATA SHEET**

Product Name: Sodium citrate dihydrate

CAS No.: 6132-04-3

Version: 0

**7. Handling and Storage**

- Precautions for safe handling** : Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. All handling to take place in well-ventilated area. Avoid generation and spreading of dust. Avoid inhalation of dust. Ground container and transfer equipment to eliminate static electric sparks. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use non-sparking hand tools and explosion-proof electrical equipment. Wash thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

**8. Exposure Controls Personal Protection****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.
- Eye/face protection** : Use tight fitting goggles if dust is generated.
- Hand protection** : Wear protective gloves.
- Other** : Wear suitable protective clothing.
- Respiratory protection** : In case of inadequate ventilation use suitable respirator.
- Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

**9. Physical and Chemical Properties**

- Appearance** : White Solid Powder.
- Odor** : Odorless
- pH** : No data available.
- Melting point/freezing point** : No data available.
- Initial boiling point and boiling range** : No data available.
- Flash Point** : Not applicable
- Vapor pressure** : No data available

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**CAS No.:** 6132-04-3

**Version:** 0

**Vapor density** : No data available  
**Relative density** : 1.7 (20 °C)  
**Solubility in water** : Soluble  
**Solubility (other)** : No data available.  
**Formula** : C<sub>6</sub>H<sub>5</sub>Na<sub>3</sub>O<sub>7</sub>·2H<sub>2</sub>O  
**Molecular Weight** : 294.10g/mol

### 10. Stability and Reactivity

<b>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	:	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	:	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	:	Heat, sparks, flames. Dust clouds may be explosive under certain conditions.
<b>Incompatible materials</b>	:	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	:	Thermal decomposition may release oxides of carbon. Sodium oxides .

### 11. Toxicological Information

#### Information on likely routes of exposure

**Ingestion** : Expected to be a low ingestion hazard.  
**Inhalation** : Dust may irritate respiratory system.  
**Skin contact** : May cause irritation.  
**Eye contact** : Dust in the eyes will cause irritation.

#### Information on toxicological effects

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

**Oral Product** : No data available.  
**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** : No carcinogenic components identified.

**MATERIAL SAFETY DATA SHEET****Product Name:** Sodium citrate dihydrate**CAS No.:** 6132-04-3**Version:** 0**Evaluation of Carcinogenic Risks to Humans DIOXANE**

<b>US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE</b>	:	No carcinogenic components identified.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	:	No carcinogenic components identified.
<b>Germ cell mutagenicity</b>	:	
<b>In vitro Product</b>	:	No mutagenic components identified.
<b>In vivo Product</b>	:	No mutagenic components identified.
<b>Reproductive toxicity Product</b>	:	No components toxic to reproduction.
<b>Specific target organ toxicity - single exposure Product</b>	:	No data available.
<b>Specific target organ toxicity - repeated exposure Product</b>	:	No data available.
<b>Aspiration hazard Product</b>	:	Not classified.
<b>Other effects</b>	:	None known.

**12. Ecological Information****Ecotoxicity****Acute hazards to the aquatic environment :**

<b>Fish Product</b>	:	No data available.
<b>Aquatic invertebrates Product</b>	:	EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 655 mg/l

**Chronic hazards to the aquatic environment :**

<b>Fish Product</b>	:	No data available.
<b>Aquatic invertebrates Product</b>	:	No data available.
<b>Toxicity to Aquatic Plants Product:</b>	:	No data available.
<b>Persistence and degradability</b>	:	
<b>Biodegradation Product</b>	:	Expected to be readily biodegradable.
<b>BOD/COD ratio Product</b>	:	No data available.
<b>Bioaccumulative potential</b>	:	
<b>Bioconcentration factor (BCF) Product</b>	:	No data available on bioaccumulation.
<b>Partition coefficient n-octanol / water (log Kow) Product</b>	:	No data available .
<b>Mobility in soil</b>	:	The product is water soluble and may spread in water systems.
<b>Other adverse effects</b>	:	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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**CAS No.:** 6132-04-3

**Version:** 0

### 13. Disposal consideration

- 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.

### 14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not regulated.		
<b>IMDG</b>			Not regulated.		
<b>IATA</b>			Not regulated.		

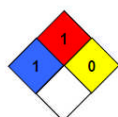
### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

### 16. Other Information

**NFPA Hazard ID**



■ Flammability  
■ Health  
■ Reactivity  
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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