

SAFETY DATA SHEET

SODIUM CITRATE

1. Identification of the Substance / Mixture and of the Company

Product Name: Sodium Citrate

INCI Name: Sodium Citrate

Chemical Name: Trisodium Citrate Dihydrate

CAS No: 6132-04-3

EC No: 200-675-3

Intended Use: Cosmetic formulations, soap making, pH buffering agent, chelating agent

Emergency Telephone: National Poison Information Center (UZEM) 114

2. Hazards Identification

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not classified as hazardous.

Hazard Statements: Not applicable.

Precautionary Statements: Not required.

Potential Adverse Effects:

Fine dust may cause mechanical irritation to eyes and respiratory tract.

3. Composition / Information on Ingredients

Substance: Trisodium Citrate Dihydrate

Chemical Formula: $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$

Purity: $\geq 99\%$

No hazardous impurities above classification limits.

4. First Aid Measures

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Wash with water. No specific treatment required.

Inhalation: Remove to fresh air. Seek medical attention if symptoms occur.

Ingestion: Rinse mouth. Drink water. Seek medical advice if large quantities are ingested.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, foam, CO₂.

Specific Hazards: Decomposition at high temperatures may produce carbon oxides and sodium oxides.

Protective Equipment: Standard protective firefighting equipment.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Use appropriate PPE.

Environmental Precautions: Prevent large quantities from entering waterways.

Methods for Cleaning: Collect by vacuum or dry sweeping. Avoid creating airborne dust.

7. Handling and Storage

Handling: Avoid generating dust. Ensure adequate ventilation.

Storage: Store in tightly closed container in a cool, dry place. Protect from moisture.

Recommended Storage Temperature: 15–25°C.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Not established.

Engineering Controls: Adequate ventilation recommended.

Personal Protective Equipment:

Eye Protection: Safety glasses recommended in dusty conditions.

Respiratory Protection: Dust mask if airborne dust is generated.

Skin Protection: Not normally required.

9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Odorless

pH (5% aqueous solution): 7.5 – 9.0

Melting Point: >150°C (decomposition)

Solubility: Freely soluble in water

Flash Point: Not applicable

Density: ~1.7 g/cm³

Auto-ignition Temperature: Not applicable
Explosive Properties: Not explosive
Oxidizing Properties: Not oxidizing

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Excessive heat, moisture.

Incompatible Materials: Strong acids may release citric acid.

Hazardous Decomposition Products: Carbon oxides, sodium oxides at high temperatures.

11. Toxicological Information

Acute Toxicity: Low toxicity.

Skin Irritation: Not irritating under normal use.

Eye Irritation: May cause mild mechanical irritation.

Respiratory Effects: Dust inhalation may cause temporary irritation.

Sensitization: Not known to cause sensitization.

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Reproductive Toxicity: Not classified.

12. Ecological Information

Ecotoxicity: Not classified as environmentally hazardous.

Biodegradability: Readily biodegradable.

Bioaccumulation: Not expected.

Mobility: Highly soluble in water.

13. Disposal Considerations

Dispose according to local regulations.

Small quantities may be disposed with general waste if permitted by local authority.

14. Transport Information

UN Number: Not applicable

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

Not classified as dangerous goods.

15. Regulatory Information

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 1223/2009 (Cosmetic Regulation)

Not listed as SVHC.

16. Other Information

Shelf Life: 36 months when stored under recommended conditions.

Information provided is based on current knowledge and intended to describe the product for health, safety, and environmental requirements only.