

Material Safety Data Sheet

Chemical Name: *Trisodium Citrate Dihydrate*

Section 1: Chemical Product and Company Identification

Product Name: Trisodium Citrate Dihydrate

CAS Number: 6132-04-3

EC Number: 200-675-3

Company Name: EZ Chemicals Inc.

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Section 2: Composition and Information on Ingredients

Name	CAS Number	EC Number	% by Weight
Trisodium Citrate Dihydrate	6132-04-3	200-675-3	100%

Section 3: Hazards Identification

- **Classification:** Not classified according to Regulation (EC) No 1272/2008
- **Label Elements:** No hazard pictogram, signal word, or hazard statement required
- **Other Hazards:** Not PBT or vPvB

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Rinse with water. Seek medical attention if irritation occurs.
- **Eye Contact:** Rinse with water. If symptoms persist, seek medical advice.
- **Ingestion:** Rinse mouth, drink water. Do not induce vomiting. Seek medical help.

Section 5: Fire and Explosion Data

- **Suitable Extinguishing Media:** CO₂, dry powder, water spray, alcohol-resistant foam
- **Hazardous Combustion Products:** Carbon monoxide and carbon dioxide
- **Protective Equipment for Firefighters:** Full protective gear and self-contained breathing apparatus

Section 6: Accidental Release Measures

- Use personal protective equipment
- Avoid release into the environment
- Clean up using mechanical means; dispose in suitable receptacles

Section 7: Handling and Storage

- **Handling:** Avoid contact with eyes and skin; avoid dust inhalation
- **Storage:** Store in original sealed containers in a cool, dry, well-ventilated area

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure proper ventilation
- **Personal Protection:**
 - Hands: Protective gloves
 - Eyes: Safety glasses with side-shields (EN 166)
 - Respiratory: Suitable filter in case of insufficient ventilation
 - Clothing: Protective work clothing

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Odorless
- **Melting Point:** Not applicable
- **Boiling Point:** Not applicable
- **Decomposition Temperature:** 150°C

- **pH:** 7.6 – 9
- **Solubility (20°C):** 400–700 g/L in water
- **Vapor Pressure (25°C):** 2.21×10^{-6} Pa (citric acid)
- **Density:** 1.86 g/cm³ (trisodium citrate pentahydrate)

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Moisture, acids, bases, direct sunlight, heat
- **Incompatible Materials:** Sodium nitrite, potassium nitrite
- **Hazardous Decomposition Products:** CO, CO₂

Section 11: Toxicological Information

- **Acute Toxicity:** Oral LD₅₀ (mouse): 5400 mg/kg (citric acid)
- **Dermal LD₅₀ (rat):** >2000 mg/kg (citric acid)
- **Irritation and Sensitization:** Not classified
- **Carcinogenicity, Mutagenicity, Reproductive Toxicity:** Not classified
- **STOT / Aspiration Hazard:** Not classified

Section 12: Ecological Information

- **Aquatic Toxicity:**
 - LC₅₀ (Fish, 48h): 440 mg/L (citric acid)
 - NOEC (Algae): 425 mg/L (citric acid)
 - LC₅₀ (Daphnia, 24h): 1535 mg/L (citric acid)
- **Biodegradability:** Readily biodegradable
- **Bioaccumulation:** Not bioaccumulative
- **Mobility in Soil:** High (citric acid pK_a values: 3.13, 4.76, 6.4)

Section 13: Disposal Considerations

- Dispose of in accordance with local regulations
- Contaminated packaging must be disposed of like the substance

Section 14: Transport Information

- **UN Number:** Not applicable
- **Shipping Name:** Not applicable
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Marine Pollutant:** No

Section 15: Regulatory Information

- Complies with REACH and other applicable regulations
- Chemical Safety Assessment has been performed

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, how-soever arising, even if the company has been advised of the possibility of such damages.