



Sodium Citrate USP Grade - Material Safety Data Sheet (MSDS)

I. Chemical Product and Company Identification

Product Name: Sodium citrate dihydrate
CAS#: 6132-04-3
Synonym: Citnatin, Citreme, Citrosoedine, Citrosodna, Natrocitral; Trisodium citrate dihydrate; 1,2,3- Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate
Chemical Name: Citric acid, trisodium salt, dihydrate
Chemical Formula: $C_6H_5Na_3O_7 \cdot 2H_2O$
Company Name: Pan Chem Corporation
Company Address: Kapur Mahal, 2nd floor, Block No. 18-B,
65 Marine Drive, Mumbai - 400020
Emergency Contact Information: +9122-22078362

II. Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Sodium citrate dihydrate	6132-04-3	100

Toxicological Data on Ingredients: Not applicable.

III. Hazards Identification

Potential Acute Health Effects:

Slightly hazardous in case of skin contact (irritant), eye contact (irritant), ingestion, inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Emergency Overview

OSHA Hazards:

Flammable liquids (2)
Eye irritation (2A),

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces..

P233 Keep container tightly closed.

P242 Use only non-sparking tools.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant

HMIS Classification:

Health hazard: 2

Flammability: 3

Physical hazard: 0

NFPA Rating:

Health hazard: 2

Fire: 3

Reactivity Hazard: 0

Potential Health Effects:

Inhalation: May be harmful if inhaled.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

IV. First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

V. Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂) and include some metallic oxides.

Fire Hazards in Presence of Various Substances:

Slightly flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

Fire Fighting Media and Instructions:

SMALL FIRE:

Use DRY chemical powder.

LARGE FIRE:

Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures.

Special Remarks on Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and the presence of an ignition source is a potential dust explosion hazard.

VI. Accidental Release Measures**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

VII. Handling and Storage**Precautions:**

Keep away from heat. Keep away from sources of ignition. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

VIII. Exposure Controls/Personal Protection**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

IX. Physical and Chemical Properties

Physical state and appearance:	Solid (Crystalline granules).
Odor:	Odorless.
Taste:	Cool, Saline.
Molecular Weight:	294.1 g/mole
Color:	White.
pH (1% soln/water): litmus; pH about 8.	The aqueous solution is slightly alkaline to
Boiling Point:	Not available.
Melting Point:	Not available.
Critical Temperature:	Not available.
Specific Gravity:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density:	Not available.
Volatility:	Not available.
Odor Threshold:	Not available.
Water/Oil Dist. Coeff:	Not available.
Ionicity (in Water):	Not available.
Dispersion Properties:	See solubility in water.
Solubility:	Easily soluble in hot water. Soluble in cold water. Insoluble in alcohol. Soluble in 1.3 parts water. Soluble in 0.6 parts boiling water.

X. Stability and Reactivity Data

Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Excess heat, dust generation, incompatible materials. Incompatibility with various substances: Reactive with oxidizing agents.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Reactivity:	Decomposes at red heat. Becomes anhydrous at 150 deg. C
Special Remarks on Corrosivity:	Not available.
Polymerization:	Will not occur.

XI. Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), ingestion, inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Potential Health Effects: Skin: Possible irritation on prolonged contact with moist or sensitive areas of the skin. Eyes: No adverse effects expected, but dust may cause mechanical irritation. Inhalation: Inhalation of large amounts of dust may cause irritation to the respiratory tract. Low hazard for usual industrial handling. Ingestion: Ingestion of large amounts may cause gastrointestinal tract irritation/disturbances. May affect behavior (convulsions), respiration (cyanosis).

XII. Ecological Information

Eco toxicity: Not available.

Products of Biodegradation:

Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

XIII. Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with local environmental control regulations.

XIV. Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

XV. Other Regulatory Information

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

XVI. 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 Pan Chem Corporation 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, howsoever arising, even if Pan Chem Corporation has been advised of the possibility of such damages.