

Mallinckrodt®

SODIUM CITRATE

Material Safety Data Sheet

Mallinckrodt Inc.
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Emergency Telephone Number
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Effective Date: 11-03-85

PRODUCT IDENTIFICATION:

Synonyms: Citrosodine; trisodium citrate; citric acid, trisodium salt;
2-hydroxy-1,2,3-propanecarboxylic acid, trisodium salt, dihydrate

Formula CAS No.: 6132-04-3
TSCA CAS No.: 68-04-2

Hazardous Ingredients:
None.

Molecular Weight: 294.10

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

PRECAUTIONARY MEASURES

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and insure prompt removal from skin, eyes and clothing.

EMERGENCY/FIRST AID

SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data SECTION 1

Appearance: White crystals.

Odor: Odorless.

Solubility: 72 g/100 g of water.

Boiling Point: Decomposes at red heat.

Melting Point: Loses water at 150°C (302°F).

Density: ca 1.7

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate: Not applicable.

SECTION 2

Fire and Explosion Information

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:

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

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Reactivity Data

SECTION 3

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Strong oxidizers.

Leak/Spill/Disposal Information SECTION 4

Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility as non-hazardous waste.

Ensure compliance with local, state and federal regulations.

Sodium Citrate

Health Hazard Information
A. Exposure/Health Effects

SECTION 5

Occupational Control Measures

SECTION 6

Inhalation:

Airborne Exposure Limits:

None established.

Inhalation of dust may cause irritation to the respiratory tract.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, conditions of use create discomfort to the worker, a local exhaust system should be considered.

Ingestion:

Extremely large oral dosages may produce gastrointestinal disturbances.

Skin Contact:

Possible irritation on prolonged contact with moist or sensitive areas of the skin.

Personal Respirators
(NIOSH Approved)

For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Chronic Exposure:

No information found.

Eye Protection:

Use chemical safety goggles. Contact lenses should be worn when working with this material.

Aggravation of
Pre-existing Conditions:

No information found.

B. FIRST AID

Storage and Special Information

SECTION 7

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

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Skin Exposure:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure:

Wash thoroughly with running water. Get medical advice if irritation develops.

C. TOXICITY DATA (RTECS, 1982)

No LD50/LC50 information found relating to normal routes of occupational exposure.