

Mallinckrodt Material Safety Data

Emergency Phone Number: 314-982-5000

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 40361.

CALCIUM NITRATE *Solution 2%*

PRODUCT IDENTIFICATION:

Synonyms: Nitric acid, calcium (II) salt; calcium II nitrate, tetrahydrate (1:2:4)

Formula CAS No.: 13477-34-4 (Hydrated)

TSCA CAS No.: 10124-37-5 (Anhydrous)

Molecular Weight: 236.15

Chemical Formula: $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$

Hazardous Ingredients: Not applicable

PRECAUTIONARY MEASURES

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAUSES BURNS. HARMFUL IF SWALLOWED OR INHALED.

Keep from contact with clothing and other combustible materials.

Do not store near combustible materials.

Store in a tightly closed container.

Wash thoroughly after handling.

Avoid breathing dust.

EMERGENCY/FIRST AID

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. In all cases call a physician. SEE SECTION 5.

DOT Hazard Class: Oxidizer

SECTION 1 Physical Data

Appearance: Colorless crystals, deliquescent.

Odor: Odorless.

Solubility: 121g in 100g of water.

Boiling Point: No information found.

Melting Point: 45°C (113°F).

Specific Gravity: 2.36

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

Vapor Pressure (mm Hg): No information found.

Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

Fire:

Oxidizing agent. Not combustible but enhances the combustion of other substances.

Explosion:

Can cause explosions in contact with combustible dusts or vapors; occasionally explosive by shock or friction.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

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. Water spray may be used to keep fire exposed containers cool.

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SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Toxic oxides of nitrogen.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Ammonia, hydrazine, other reducing agents.

SECTION 4 Leak/Spill Disposal Information

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.

Small amounts of residue may be flushed to sewer with plenty of water.

Ensure compliance with local, state and federal regulations.

For more information, contact the nearest Mallinckrodt office or the Science Products Division, P.O. Box M, Paris, KY 40361.

Effective Date: 08-16-85

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