

# 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 43061.

### SODIUM HYDROSULFITE

#### PRODUCT IDENTIFICATION:

Synonyms: Dithionous acid, disodium salt

Formula CAS No.: 7775-14-6

Molecular Weight: 174.10

Chemical Formula:  $\text{Na}_2\text{S}_2\text{O}_4$

Hazardous Ingredients: None.

#### PRECAUTIONARY MEASURES

**WARNING! FLAMMABLE! MAY IGNITE WITH MOISTURE AND AIR. HARMFUL IF SWALLOWED. CAUSES IRRITATION.**

Wash thoroughly after handling.  
Keep away from heat, sparks and flame.  
Keep from contact with clothing and other combustible materials.  
Store in a tightly closed container.  
Avoid contact with eyes, skin and clothing.

#### 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. 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: Flammable Solid

#### SECTION 1 Physical Data

Appearance: White to grayish-white granular powder.

Odor: Distinct sulfur dioxide odor.

Solubility: 20°C (68°F)

Boiling Point: Not applicable.

Melting Point: 130°C (266°F) decomposes

Specific Gravity: 2.19

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:**

Flammable solid. Heats spontaneously in contact with moisture and air; may ignite in the presence of combustible materials.

##### **Explosion:**

Not considered to be an explosion hazard.

##### **Fire Extinguishing Media:**

Carbon dioxide, dry chemical or sand.

##### **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.

#### SECTION 3 Reactivity Data

##### **Stability:**

Stable when stored in closed containers at room temperature. Heats spontaneously in contact with moisture and air.

##### **Hazardous Decomposition Products:**

Emits toxic sulfur oxides and sodium oxide when heated to decomposition.

##### **Hazardous Polymerization:**

This substance does not polymerize.

##### **Incompatibilities:**

Water, combustible materials and sodium chlorite.

#### SECTION 4 Leak/Spill Disposal Information

Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from dust. Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust. Disposal: Whatever cannot be saved for reclamation may be disposed in an RCRA approved hazardous waste facility. Do not contact with water. Clean-up personnel wear respiratory protection for sulfur oxides.

Ensure compliance with local, state and federal regulations.

MS DS  
SENT TO  
SAFETY OFFICER  
DATE 1-29-88

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 2

Effective Date: 08-30-85

SODIUM HYDROSULFITE

**SECTION 5 Health Hazard Information**

**A. EXPOSURE / HEALTH EFFECTS**

**Inhalation:**

Inhalation of dust may cause moderate to severe irritation to nose, throat, and upper respiratory tract. Symptoms may include sore throat, coughing, and shortness of breath.

**Ingestion:**

May cause abdominal pain, nausea, vomiting, colic and diarrhea, circulatory disturbances, central nervous system depression, irritability, restlessness, convulsions, cyanosis, respiratory and cardiovascular collapse, and death. Estimated lethal dose 30 grams.

**Skin Contact:**

Prolonged contact may cause mild irritation and redness.

**Eye Contact:**

May cause irritation, redness, and pain.

**Chronic Exposure:**

Exposure may induce allergic reaction.

**Aggravation of Pre-existing Conditions:**

No information found.

**B. FIRST AID**

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

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. Call physician immediately.

**Skin Exposure:**

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Eye Exposure:**

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**C. TOXICITY DATA** (RTECS, 1982)

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

**SECTION 6 Occupational Control Measures**

**Airborne Exposure Limits:**

None established.

**Ventilation System:**

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

**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.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

**SECTION 7 Storage and Special Information**

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

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