

SODIUM SULFITEMaterial Safety Data Sheet

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Effective Date: April 15, 1985

Product Identification:

Synonyms: Sodium Sulfite Anhydrous; Disodium Sulfite

CAS Number: 7757-83-7 Molecular Weight: 126

Chemical Formula:  $\text{Na}_2\text{SO}_3$  Hazardous Ingredients: Not Applicable

PRECAUTIONARY INFORMATION

**WARNING! HARMFUL IF SWALLOWED.**

Wash thoroughly after handling.

EMERGENCY/FIRST AID

If swallowed, give several glasses of water to drink to dilute. Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person. See Section 5.

DOT Hazard Class: Not Regulated

Physical Data

Appearance: White crystals

Odor: Odorless

Solubility: 12.5 gm/100 gm water @ 0°C (32°F)

Boiling Point: Not applicable

Vapor Density: No information found

Melting Point: Decomposes

Vapor Pressure: No information found

Specific Gravity: 2.6

Evaporation Rate: No information found

Fire and Explosion InformationSECTION 2

Fire: Not a fire hazard.

Explosion: Not an explosion hazard.

Fire Extinguishing Media: Use any medium suitable for extinguishing surrounding fire.

Special Information:

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

Reactivity DataSECTION 3Stability:

Stable under normal conditions of storage and use.

Hazardous Decomposition Products:

Sulfur oxides, Sodium Oxide, and Sodium Sulfide residue.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Acids, strong oxidizers, high temperatures.

Leak/Spill Disposal InformationSECTION 4

Spills: Ventilate area of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Sweep up dry material into a suitable metal container with a cover for reclamation or disposal. Flush residue to sewer, providing ventilation to clear sulfur dioxide fumes generated from water contact.

Disposal: Whatever cannot be saved for reclamation may be disposed in an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

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**Health Hazard Information**  
**A. Exposure/Health Effects**  
**Inhalation:**

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**SECTION 5**

May cause irritation to the mucous membranes.

**Ingestion:**

May cause gastric irritation by the liberation of sulfuric acid. Large doses may be fatal.

**Skin Contact:**

Concentrated solutions may be irritating to the skin.

**Eye Contact:**

May cause irritation, redness, pain.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

Some individuals are said to be dangerously sensitive to minute amounts of sulfites in foods. Symptoms may include bronchoconstriction, shock, gastrointestinal disturbances, angio edema, flushing, and tingling sensations.

**B. FIRST AID**  
**Inhalation:**

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

**Ingestion:**

If patient is conscious, give large quantities of water to swallow. Do not induce vomiting. Get medical attention as soon as possible.

**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: (NTECS, 1982)**

Oral rabbit LD<sub>50</sub>: 2825 mg/kg

Mutation references cited.

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**SECTION 6**

**Occupational Control Measures**

**Airborne Exposure Limit:**

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 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:**

Wear chemical safety goggles. Contact lenses should not be worn when working with this material.

Maintain eye wash fountain and quick-drench facilities in work areas.

**SECTION 7**

**Storage Information**

Protect from physical damage.

Keep in a well enclosed container stored in a cool, dry place, away from acids and oxidizers.

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