

Material Safety Data Sheet

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Emergency Telephone No.
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Product Identification:

Synonyms: Sodium Pyrosulfite;

CAS Number: 7681-57-4 Sodium Metabisulfite Molecular Weight: 190.1
7631-90-5 Sodium Bisulfite

Chemical Formula: Usually a mixture of $\text{Na}_2\text{S}_2\text{O}_5$ and NaHSO_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: ORN-B

Physical Data

Appearance: Coarse white granules

Odor: Slight odor of sulfur dioxide

Solubility: Very soluble in water, insoluble in alcohol.

Boiling Point: Not Applicable Vapor Density: No information found.

Melting Point: Decomposes above 150°C (302°F) Vapor Pressure: No information found.

Specific Gravity: 1.48 Evaporation Rate: No information found.

SECTION 1SECTION 2Fire and Explosion Information

Fire: Not a fire hazard.

Explosion: Not an explosion hazard.

Fire Extinguishing Media:

Use any medium suitable for extinguishing supporting fire.

Special Information:

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

SECTION 3Reactivity DataStability:

Strength diminishes somewhat with age. Gradually decomposes in air to sulfate, generating sulfuric acid gas.

Hazardous Decomposition Products:

When heated to decomposition it emits toxic fumes of sodium oxide and sulfur oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Acids, oxidizers, aluminum powder.

Leak/Spill Disposal InformationSECTION 4

Spills: Ventilate area of leak or spill. Clean-up personnel need skin, eye, and respiratory protection.

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 landfill.

Ensure compliance with local, state and federal regulations.

Reportable Quantity (RQ) (CWA Sec. 311): 5,000 lbs.

Health Hazard Information

SECTION 5

A. Exposure/Health Effects

Inhalation:

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 broncho constriction, 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:

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

Skin Exposure:

Wash exposed areas 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 Rat LD₅₀:
Mutation Data:
Positive

2000 mg/Kg
Positive

Occupational Control Measures

SECTION 6

Airborne Exposure Limit:

- ACGIH Threshold Limit Value (TLV): 5 mg/m³ (TWA)

Ventilation System:

A system of general and/or local exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the vapor at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators:

(NIOSH approved)
If the TLV is exceeded, a dust respirator may be worn, in general, up to ten times the TLV. Consult respirator supplier for limitations. Alternatively, a supplied air full facepiece respirator or airlined hood may be worn.

Skin Protection:

Impervious gloves, labcoat, apron or coveralls.

Eye Protection:

Chemical safety goggles.

Maintain eye wash fountain and quick drench facilities in work area.

Storage and Special Information

SECTION 7

Protect against physical damage and moisture. Separate from combustible, organic, or other readily oxidizable substances.

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