

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 731.00

Revision Date: March 12, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Sodium Dithionite

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Sodium Dithionite

Synonym: sodium hydrosulfite

CAS#: 7775-14-6

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### Section 3 — Hazards Identification

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White powder or flakes. Strong sulfurous odor.  
Slightly toxic by ingestion. Body tissue irritant. Avoid all body tissue contact.  
Flammable solid. Strong reducer.  
When in contact with water, produces toxic and corrosive material.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-3  
Reactivity-3  
Exposure-1  
Storage-1

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.  
Eye: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Flammable solid.  
When heated to decomposition, emits toxic fumes of sulfur dioxide and sulfurous acid gases. When in contact with water, produces toxic and corrosive material.

#### NFPA CODE

H-2  
F-1  
R-2

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool dry place. Keep container tightly closed. Store in a Flinn Chem-Saf bag.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

### Section 9 — Physical and Chemical Properties

White powder of flakes. Strong sulfurous odor.  
Solubility: Partially soluble in water; not in alcohol.  
Formula: Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>  
Formula Weight: 174.11

Melting Point: 55 C

### Section 10 — Stability and Reactivity

Avoid contact with water, strong oxidizers, strong acids. Contact with acid produces a poisonous gas. Contact with water produces toxic and corrosive material.

Shelf life: Poor.

### Section 11 — Toxicological Information

Acute effects: Irritant, nausea, headache and vomiting  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: N.A.  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #12b is one option.

### Section 14 — Transport Information

Shipping Name: Sodium dithionite  
Hazard Class: 4.2, Spontaneously combustible  
UN Number: UN1384

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-890-0), RCRA code D001, D003.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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*Flinn MSDS Prevent Chemical Accidents*

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