

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 731.00

Revision Date: July 13, 1996

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Sodium Dithionite

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261  
CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Sodium Dithionite  
Synonym: sodium hydrosulfite  
CAS#: 7775-14-6

### SECTION 3 — HAZARDS IDENTIFICATION

White powder or flakes. Strong sulfurous odor.  
Mildly 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

### SECTION 4 — FIRST AID MEASURES

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.

### SECTION 5 — FIRE FIGHTING MEASURES

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

#### NFPA CODE

H-2  
F-1  
R-2

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

### SECTION 7 — HANDLING AND STORAGE

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.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White powder of flakes. Strong sulfurous odor.  
Solubility: Partially soluble in water; not in alcohol.  
Formula:  $\text{Na}_2\text{S}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$   
Formula Weight: 174.11

Melting Point: 55 C

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**SECTION 10 — STABILITY AND REACTIVITY**

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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.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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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.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Sodium dithionite  
Hazard Class: 4.2, Spontaneously combustible  
UN Number: UN1384  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the Flinn Chemical Catalog/Reference Manual  
for additional information about laboratory chemicals**