

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 731.00

Revision Date: September 28, 2011

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 sulfur-like 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

SECTION 4 — FIRST AID MEASURES

Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable solid.

When heated to decomposition, emits toxic fumes of SO₂ 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. Ventilate area, remove all ignition sources and water. Wipe up, place in sealed bag or container and dispose. 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.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White powder of flakes. Strong sulfurous odor.
Solubility: Partially soluble in water; not in alcohol.
Formula: $\text{Na}_2\text{S}_2\text{O}_4$
Formula weight: 174.108

Melting point: 52 °C (decomposes)
Specific gravity: 2.19

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with water, strong oxidizers, strong acids and ignition sources. 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: Possible allergic reaction
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 review all federal, state and local regulations that may apply, before proceeding.
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

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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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