

1-21-2022: File reviewed, more current MSDS/SDS not available. JMC

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Dithionite

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-10320

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Self-heating substances and mixtures (Category 1). Self-heating; may catch fire (H251). Keep cool. Protect from sunlight (P235+P410).



Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium dithionite	7775-14-6	Na ₂ S ₂ O ₄	174.11	
Synonyms: Sodium hydrosulfite				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. **Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).**

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

NFPA Code

When heated to decomposition, may emit toxic fumes. When in contact with water, produces toxic and corrosive material.

H-2

F-1

In case of fire: Use a tri-class dry chemical fire extinguisher.

R-2

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

Contact with water produces a toxic and corrosive material. Keep container tightly closed. Store in a Flinn Chem-Saf™ bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash thoroughly after handling (P264)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White powder of flakes. Strong sulfurous odor.	Melting point: 52 °C (decomposes)
Soluble: Partially in water. Insoluble in alcohol.	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. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, nausea, headache and vomiting.	ORL-RAT LD ₅₀ : N.A.
Chronic effects: Possible allergic reaction.	IHL-RAT LC ₅₀ : N.A.
Target organs: N.A.	SKN-RBT LD ₅₀ : N.A.

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

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

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

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