

3-7-2022: File reviewed, more current MSDS/SDS not available. JMC

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-10278

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Substances and mixtures which, in contact with water, emit flammable gases (Category 1). In contact with water releases flammable gases which may ignite spontaneously (H260). Handle under inert gas. Protect from moisture (P231+P232). Keep away from any possible contact with water, because of violent reaction and possible flash fire (P223).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fumes (P260).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium	7440-23-5	Na	22.99	

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

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 or hair: Immediately remove all contaminated clothing. Brush off loose particles from skin (P335). Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Flammable solid. Autoignition Temperature: 120-125 °C Severe fire risk. May ignite spontaneously in moist air. Reacts explosively with water producing very dangerous hydrogen gas.

NFPA Code

H-3

F-3

In case of fire: Use class D fire extinguisher or dry sand for extinction (P370+P378). Keep away from any possible contact with water, because of violent reaction and possible flash fire (P223).

R-2

No Water

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. Pick up pieces of sodium and place in a container with clean, dry oil (kerosene or mineral oil). Ventilate area and wash site after material has been picked up. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Store in a PVC coated glass bottle, under dry oil, and inside a Flinn Saf-Stor™ can.

Sodium metal must always be stored under dry oil to prevent contact with moist air.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, eye protection, and face protection (P280). Wash hands thoroughly after handling (P264).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Soft, silvery-white solid. Wax-like at room temperature. Boiling point: 881.45 °C

Oxidizes rapidly in air.

Melting point: 97.85 °C

Specific gravity: 0.97 at 20 °C

Viscosity: 0.684 MPa.s at 104 °C

SECTION 10 — STABILITY AND REACTIVITY

Decomposes water on contact evolving explosive hydrogen and producing a solution of corrosive sodium hydroxide.

Avoid acids and oxidizing agents.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive

ORL-RAT LD₅₀: N.A.

Chronic effects: N.A.

IHL-RAT LC₅₀: N.A.

Target organs: N.A.

SKN-RBT LD₅₀: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic toxicity: Sodium hydroxide (reaction product with water) 48-hour TLM, bluegill sunfish: 99 mg/L; 96-hour TLM, mosquito fish: 125mg/L

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #3 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Sodium; Hazard class: 4.3, Dangerous when wet; UN number: UN1428

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-132-9), RCRA code D001, D002, D003.

SECTION 16 — OTHER INFORMATION

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EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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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