

Safety Data Sheet (SDS)

2/24/2025: File reviewed; more current MSDS/SDS not available. CAS

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Fluoride

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-10321

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).



Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium fluoride	7681-49-4	NaF	41.99	

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

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 (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

If on skin: Rinse cautiously with water for several minutes (P351).

If swallowed: Rinse mouth. Immediately call a POISON CENTER or physician (P301+P330+P310).

SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible solid.

When heated to decomposition, may emit toxic fumes.

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

NFPA Code

H-3

F-0

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. Ventilate area. Wipe up, place in sealed bag or container and dispose. 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.

Moisture sensitive material. Store in a cool dry place. Store in a Flinn Chem-Saf™ bag, and lock up in a poison cabinet. Aqueous solutions may etch glass.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

Exposure guidelines: (solid fluorides) PEL 2.5 mg/m³ (OSHA).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear lustrous crystals or powder. Odorless.

Boiling point: 1704 °C

Soluble: Water. Slightly in alcohol.

Melting point: 996 °C

Specific gravity: 2.78

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong acids and alkalies, oxidizing agents, and metals.

Shelf life: Indefinite, if stored properly. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe skin and eye irritant. Toxic if ingested, abdominal pain, nausea, diarrhea.

ORL-RAT LD₅₀: 52 mg/kg

IHL-RAT LC₅₀: N.A.

Chronic effects: Possible mutagen, calcification of ligaments and spine.

SKN-RBT LD₅₀: N.A.

Target organs: Heart, kidneys, bones, nerves, GI system, teeth.

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 #6 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Sodium fluoride. Hazard class: 6.1, Keep away from food. UN number: UN1690.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-667-8).

SECTION 16 — OTHER INFORMATION

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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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