

Safety Data Sheet (SDS) 5/20/2025: File reviewed, more current MSDS/SDS not available. CAS

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Sodium Metasilicate

**Signal Word**  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-10358

**Pictograms**

## SECTION 2 — HAZARDS IDENTIFICATION

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



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).



Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium metasilicate nonahydrate	13517-24-3	NaSiO <sub>3</sub> •9H <sub>2</sub> O	284.2	
Synonyms: Disodium monosilicate				

## SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing (P304+P340). **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 on skin:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

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

## SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

**NFPA Code**

When heated to decomposition, may emit toxic fumes.

None established

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

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Sweep 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.

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## **SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool dry place. Keep container tightly closed (P233).

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## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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

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## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Whitish, transparent, orthorhombic crystals. Odorless.	Melting point: 1089 °C
Soluble: Cold water. Insoluble in acids and alcohol.	Specific gravity: 2.614

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## **SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with halogens, strong acids.

Shelf life: Indefinite, if stored properly.

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Corrosive.	ORL-RAT LD <sub>50</sub> : 1153 mg/kg
Chronic effects: N.A.	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: N.A.	SKN-RBT LD <sub>50</sub> : N.A.

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

Flinn Suggested Disposal Method #26a is one option.

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## **SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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## **SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed; EINECS-listed (229-912-9).

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## **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.**

