

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 705.00

Revision Date: September 28, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Azide

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 azide

Synonym: Sodium trinitride

CAS#: 26628-22-8

SECTION 3 — HAZARDS IDENTIFICATION

Colorless, hexagonal crystals. Odorless.

Highly toxic by ingestion, inhalation and skin absorption. Avoid all body contact.

Combustible solid.

FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-2

Exposure-3

Storage-3

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

Combustible solid.

Forms explosive compounds with metals, acids, and other materials. Explodes when heated. Shock sensitive.

When heated to decomposition, emits toxic fumes of NO_x and Na₂O.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

NFPA CODE

None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and 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 #3. Store with amides, nitrates and nitrites.

Store in a Flinn Chem-Saf bag, and lock up in a poison cabinet. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: Ceiling 0.1 ppm (NIOSH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, hexagonal crystals. Odorless.
Solubility: Soluble in water; slightly in alcohol.
Formula: NaN_3
Formula weight: 65.010

Melting point 300 °C (decomposes)
Specific gravity: 1.846

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids, metals (e.g., lead, silver, mercury, copper), bromine, nitric acid, carbon disulfide, benzoyl chloride and KOH. Avoid heating or shocking substance - explodes when heated or shocked.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, nausea, headache, vomiting
Chronic effects: Mutagen
Target organs: Nerves, heart, brain, thorax, lungs

ORL-RAT LD_{50} : 27 mg/kg
ORL-HUMAN LDL_0 : 143 mg/kg
SKN-RBT LD_{50} : 20 mg/kg

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 #8 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Sodium Azide
Hazard class: 6.1, Poison
UN number: UN1687
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (247-852-1), RCRA code P105.

SECTION 16 — OTHER INFORMATION

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