

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 705.00

Revision Date: September 27, 2010

### 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, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. 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<sub>x</sub> and Na<sub>2</sub>O.

**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)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless, hexagonal crystals. Odorless.

Specific Gravity: 1.846

Solubility: Soluble in water; slightly in alcohol.

Formula:  $\text{NaN}_3$ 

Formula Weight: 65.02

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**SECTION 10 — STABILITY AND REACTIVITY**

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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.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Highly toxic, nausea, headache, vomiting

ORL-RAT LD50: 27 mg/kg

Chronic effects: Mutagen

ORL-MAN LDLO: 143 mg/kg

Target organs: Nerves, heart, brain, thorax, lungs

SKN-RBT LD50: 20 mg/kg

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

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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 consult with state and local regulations.

Flinn Suggested Disposal Method #8 is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Sodium Azide

Hazard Class: 6.1, Poison

UN Number: UN1687

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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

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**SECTION 16 — OTHER INFORMATION**

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