

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 727.00

Revision Date: March 12, 2001

Section 1 — Chemical Product and Company Identification

Sodium Cyanide

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 Cyanide

CAS#: 143-33-9

Section 3 — Hazards Identification

White crystalline powder; deliquescent. Odorless.
Highly toxic by ingestion, inhalation, or skin absorption. Exposure may result in death.
Avoid all body contact.
Contact with water or acid will liberate highly toxic hydrogen cyanide.

FLINN AT-A-GLANCE

Health-3
Flammability-0
Reactivity-3
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: Break amyl nitrite pearls in a cloth and hold to nose for 30 seconds. Repeat 4 times. Remove to fresh air at once.
If breathing has stopped give artificial respiration immediately.
Eye or External: Immediately flush with fresh water for 15 minutes.
Internal: Administer inhalation first aid measures first. After administering pearls, rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.
When contact with acid, acid fumes, water or steam, emits flammable and toxic fumes of CN & Na₂O.
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3
F-0
R-0

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 #7. Store with arsenates, cyanides and cyanates.
Store in a cool dry place. 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: TWA 5 mg/m³ (ACGIH)

Section 9 — Physical and Chemical Properties

White crystalline powder; deliquescent. Odorless.
Solubility: Soluble in water; slightly in alcohol.
Formula: NaCN
Formula Weight: 49.01

Melting Point: 563 C
Boiling Point: 2725 F

Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers, acids, acid fumes, water, or steam.
Shelf life: Good, if stored safely.

Section 11 — Toxicological Information

Acute effects: Highly toxic, severe eye irritant
Chronic effects: Lung irritation, cyanosis, CNS depression
Target organs: Central nervous system, blood, heart

ORL-RAT LD50: 6.44 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: N.A.

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 consult with state and local regulations.
Flinn Suggested Disposal Method #14 is one option.

Section 14 — Transport Information

Shipping Name: Sodium Cyanide
Hazard Class: 6.1, Poison
UN Number: UN1689

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (205-599-4), RCRA code P106.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn MSDS Prevent Chemical Accidents

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