

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 8.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Acetonitrile

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

Acetonitrile

Synonyms: methyl cyanide, ethyl nitrile

CAS#: 75-05-8

Section 3 — Hazards Identification

Colorless liquid. Distinct ether odor.

Harmful if inhaled or absorbed through skin. Avoid breathing vapor. Avoid contact with skin and eyes. Slightly toxic by ingestion, inhalation or skin absorption; irritant and lachrymator.

Class 1B flammable liquid, serious fire hazard.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-2

Exposure-2

Storage-2

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 pearl in a cloth and hold to nose for 15 seconds. Repeat 5 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

Class 1B flammable liquid.

Flash Point: 42 F (oc) UEL: 16.0% LEL: 3.0% Autoignition Temperature: 973 F

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode. Dangerous fire and explosive hazard; decomposes to toxic and flammable cyanides and NOx from reaction with water, steam and acids.

NFPA CODE

H-2

F-3

R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #7. Store with sulfides, polysulfides, sulfoxides and nitriles. Store in a Flinn Chem-Saf bag and Flinn Saf-Stor can. Store in a cool dry place. 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 40 ppm, STEL 60 ppm (OSHA, ACGIH)

Section 9 — Physical and Chemical Properties

Colorless liquid; distinct ethereal odor.
Solubility: Water soluble.
Formula: CH₃CN
Formula Weight: 41.05

Specific Gravity: 0.784
Melting Point: -45 C
Boiling Point: 81.1 C
Vapor Pressure: 100 mm and 27C
Vapor density: 1.42

Section 10 — Stability and Reactivity

Contact with acids produces hydrogen cyanide gas. Avoid contact with acids, water, steam, oxidizers, and flame.
Shelf Life: Good, if stored properly.

Section 11 — Toxicological Information

Acute effects: Toxic, lachrymator, irritant
Chronic effects: N.A.
Target organs: CNS, liver, kidneys, blood, lungs

ORL-RAT LD50: 2730 mg/kg
IHL-RAT LC50: 7551 ppm/8h
SKN-RBT LD50: 1250 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 consult with state and local regulations.
Flinn Suggested Disposal Method #18a is one option.

Section 14 — Transport Information

Shipping Name: Not regulated
Hazard Class: N/A
UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-835-2), RCRA code U003.

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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