

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 8.00

Revision Date: October 6, 2011

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-like 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 and 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 at least 15 minutes.

Internal: Rinse 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: 6 °C (OC) Flammable limits: Lower: 3.0% Upper: 16.0% Autoignition Temperature: 523 °C

Fire Fighting Instructions: Use a 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 NO_x from reaction with water, steam, and acids.

NFPA CODE

H-2

F-3

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a 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: PEL 40 ppm, STEL 60 ppm (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid; distinct ether odor.

Solubility: Water soluble.

Formula: CH₃CN

Formula weight: 41.05

Boiling point: 81.1 °C

Melting point: -45 °C

Specific gravity: 0.784

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/kgIHL-RAT LC₅₀: 7551 ppm/8hSKN-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 review all federal, state and local regulations that may apply, before proceeding.

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

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