

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Acetonitrile
Product Code: A04640
Supplier: Pfaltz & Bauer, Inc.
172 E. Aurora Street
Waterbury, CT 06708 USA
Phone: 203 574-0075
Fax: 203 574-3181
Emergency Phone: CHEMTREC, US: 1-800-424-9300
CHEMTREC, International: 1-703-527-3887

SECTION 2: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Acetonitrile
Synonyms: CAN; Methylcyanide; Cyanomethane; Ethanenitrile;
Ethyl nitrile
CAS Number: 75-05-8
MDL Number: MFCD00001878
Beilstein Reg. Number: 741857
Molecular Formula: CH₃CN
Molecular Weight: 41.05

SECTION 3: HAZARDS IDENTIFICATION

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.
Chronic Health Hazard: Reproductive effects. Teratogen.
HMIS Rating: H:2 F:3 R:0
NFPA Rating: H:2 F:3 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

SECTION 4: FIRST AID MEASURES

<u>Eye Contact:</u>	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
<u>Skin Contact:</u>	Wash skin with soap and water. If irritation persists, seek medical attention.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention.
<u>Inhalation:</u>	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

<u>Flash Point:</u>	2°C
<u>Explosion Limits:</u>	Lower: 4.4 % by volume Upper: 16 % by volume
<u>Auto Ignition Temperature:</u>	523°C
<u>Extinguishing Media:</u>	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
<u>Protective Equipment:</u>	Wear self-contained respirator and fully protective impervious suit.
<u>Specific Hazards:</u>	Emits hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u>	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.
<u>Environmental Protection:</u>	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

<u>Handling:</u>	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.
<u>Storage:</u>	Store in a tightly closed container in a dry, well-ventilated place. Handle and store under inert gas. Lachrymator.
<u>Storage Temperature:</u>	15 - 30°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Eyes:</u>	Wear appropriate protective eyeglass or chemical safety goggles. Eyewash facility in vicinity.			
<u>Skin:</u>	Wear impervious gloves and protective clothing.			
<u>Respiratory:</u>	Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.			
<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	20 ppm
	USA	OSHA	PEL	40 ppm

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<u>Appearance:</u>	Clear, colorless liquid
<u>Odor:</u>	Pungent lachrymator
<u>Melting Point:</u>	-45 to -48°C
<u>Boiling Point:</u>	80-82°C
<u>Density:</u>	0.78 g/cm ³
<u>Refractive Index, n²⁰_D:</u>	1.344
<u>Viscosity:</u>	Not available
<u>Solubility in Water:</u>	Soluble

SECTION 10: STABILITY and REACTIVITY

<u>Stability:</u>	Stable under normal temperatures and pressures.
<u>Incompatibility:</u>	Strong oxidizing agents, strong acids, bases, reducing agents, alkali metals.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Number: AL7700000
Target Organs: Lungs, Blood, Kidney, Liver, Central nervous system
Toxicity Data: Oral Rat LD₅₀: 2460 mg/kg
Skin Rabbit LD₅₀: 1250 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Acetonitrile
DOT UN Number: 1648
DOT Hazard Class: 3
DOT Packing Group: II

IATA Shipping Name: Acetonitrile
IATA UN Number: 1648
IATA Hazard Class: 3
IATA Packing Group: II

SECTION 15: REGULATORY INFORMATION

United States:
Toxic Substance Control Act (TSCA): Listed
Superfund Amendments and Reauthorization Act (SARA 302): Not listed
Superfund Amendments and Reauthorization Act (SARA 313): Listed

International:
European Inventory of Existing Chemical Substances (EINECS): Listed (200-835-2)
Canadian Domestic Substances List (DSL): Listed

SECTION 16: OTHER INFORMATION

Date Prepared: 2/6/2009 MAB

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgment to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.