



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

PYRIDINE
PYRTUL

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Azabenzene

CAS #: 110-86-1

DOT Hazard Class: 3

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

100% Pyridine

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Extremely flammable colorless liquid and vapor. Harmful if swallowed or inhaled. Causes severe irritation to skin, eyes and respiratory tract. Affects central nervous system, liver and kidneys.

POTENTIAL HEALTH EFFECTS:

Skin: Causes irritation to skin. Symptoms may include redness and burning of skin.

Eyes: Causes irritation, redness and pain. Symptoms include stinging, tearing, redness and swelling.

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Overexposure may cause dizziness, headache and nausea. May cause liver, kidney or lung injury.

Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause sore throat and abdominal pain. May cause liver or kidney injury.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart.

Inhalation: Remove to the fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. A cyanide antidote kit must be available at all times. Immediate first aid, including administration of oxygen and amyl nitrite, may be given by a trained layman. Medical treatment involves intravenous injection and must be administered by qualified medical personnel. Speed of treatment is very important. First Aid given promptly is often the only treatment needed.

Ingestion: Never give anything by mouth to an unconscious person. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

On All Of The Above: Get medical attention immediately.

Note to Physicians: Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions), exposure to this material may aggravate any pre-existing condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 20 °C (68 °F) Closed Cup

Flammable Limits in air % by volume: lel: 1.8; uel: 2.4

Extinguishing Media: Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures:

Dangerous fire hazard when exposed to heat or flame.

Hazard Products of Combustion May form: Hydrogen Cyanide.

Fire Fighters must wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Vapors can flow along surfaces to distant ignition source and flash back.

Unusual Fire Explosion Hazard: Vapors are heavier than air and may travel along the ground and may be moved by ventilation and ignited by pilot lites, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Auto Ignition Temperature: 482 °C (899 °F)

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Small Spill: Isolate the spill area. Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood. Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks.

Large Spill: Isolate the spill area. Stop spill at source. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Use non-sparking tools and equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop leak in a safe and practical manner. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Contain and recover liquid when possible. Absorb small spills with inert, non-combustible material and place in an approved chemical waste container. Dike large spills with inert material and transfer liquid into same container. Do not allow to enter into sewers or waterways.

SECTION 7 - HANDLING AND STORAGE

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All 5-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred.

Store in cool dry place away from sources of ignition.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other HIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION REQUIREMENTS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure. Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist).

WORK, HYGIENIC PRACTICES:

Maintain eye wash fountain and quick-drench facilities in work area. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: OSHA Permissible Exposure Limit (PEL): 5.000 ppm (TWA)
ACGIH Threshold Limit Value (TLV): 5.000 ppm (TWA)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 115.5 °C (240 °F) @ 760 mm Hg

Vapor Pressure (MM Hg): 16 @ 20 °C (68 °F)

Vapor Density (AIR=1): 2.7

Specific Gravity (H₂O=1): 0.99 @ 20 °C

Percent Volatile by Volume (% @ 21 °C (68 °F): 99

Melting Point: -42 °C (-43.6 °F)

Evaporation Rate (Butyl Acetate=1): 8.2

Solubility in Water: Miscible in water.

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable in closed containers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Cyanide.

KEEP AWAY FROM: Heat, flame, ignition sources, and strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral rat LD50: 891 mg/kg; inhalation rat LC50: 28500 mg/m³/hour; skin rabbit LD50: 1121 mg/kg;
Irritation data: skin rabbit, open Draize, 10 mg/24H mild; eye rabbit, standard Draize, 2 mg severe.
Investigated as a tumorigen and mutagen.

Ingredient Known	---NTP Carcinogen---		
	Anticipated	IARC	Category
Pyridine (110-86-1)	No	No	None

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity: 96-hour LC50, fathead minnows: between 10 and 100 mg/L. Fish: over 100 mg/L.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing use or contamination of this product may change the waste management options. Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.)
Proper Shipping Name: PYRIDINE
Hazard Class: 3
UN/NA: UN1282
Packing Group: II
Information reported for product/size: 441LB

International (Water, I.M.O.)
Proper Shipping Name: PYRIDINE
Hazard Class: 3.2
UN/NA: UN1282
Packing Group: II
Information reported for product/size: 441LB

SECTION 15 - REGULATORY INFORMATION

US Federal Regulations
TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)
Component RQ (lbs)
PYRIDINE 1000

SECTION 15 - REGULATORY INFORMATION Continued:

SARA 302 Components - 40 CFR 355 Appendix A: None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Fire(X)

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number	%
PYRIDINE	110-86-1	100.00

International Regulations

Inventory Status: Not determined

State and Local Regulations

California Proposition 65: None

New Jersey RTK Label Information

PYRIDINE 110-86-1

Pennsylvania RTK Label Information

PYRIDINE 110-86-1

SECTION 16 - OTHER INFORMATION

NFPA Hazard Ratings: Health – 3 Flammability – 3 Reactivity – 0

Reason for Issue: Changed Date

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