

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

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SECTION 1: IDENTIFICATION

Product Name: 2,6-LUTIDINE
Common Name: 2,6-dimethylpyridine
Chemical Formula: C₇H₉N
CAS No.: 108-48-5

SECTION 2: HAZARDOUS INGREDIENTS:

Toxic. Irritant. The vapors of this material are irritating to the nasal and respiratory tracts. Absorption can occur from the GI, skin, and respiratory skin. Symptoms of overexposure to pyridine and its alkyl derivatives may include weakness, dizziness, headache, nausea, sleeplessness, loss of appetite, and unconsciousness. Based on available data for structurally similar compounds this material is considered to be a skin irritant. Extended exposure (eg. from saturated clothing) may lead to irritation, skin burns, and/or systemic poisoning. This material is dermally non-toxic at the 1000 mg/kg dosage level. Symptoms of systemic poisoning may include those listed previously. The material and its vapor are irritating to the eye and eyelids. It is considered to be a severe eye irritant so extra caution should be used to prevent exposure and possible damage to the eyes. The symptoms seen after ingestion are expected to be essentially the same as those listed previously. It is assumed that this material is moderately toxic via the oral route. Ingestion is not likely to be primary route of exposure. Persons with pre-existing skin, liver, or kidney disorders may be at increased risk from overexposure to this material. This is not likely to be a problem when appropriate procedures are used to minimize exposure.

SECTION 3: PHYSICAL DATA

Appearance and Odor:	liquid, straw colored, characteristic odor
Boiling point:(760 mmHg)	144°C (291°F)
Vapor Pressure (mmHg):	n/a
Specific Gravity (Water = 1):	0.923 @ 20°C
Solubility in water:(by weight)	freely soluble at 20°C
Freezing Point:	-7°C (19°F)
Vapor Density:	n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flash point:	37°C, 99°F TCC
Flammable limit:	n/a
Extinguishing Media:	water fog, foam, carbon dioxide, dry chemical
Fire Fighting Procedures:	Wear self-contained breathing apparatus and full protective clothing. Skin contact should be avoided
Unusual Fire and Explosion Hazards:	due to the potential for dermal toxicity. Normal firefighting procedures may be used. Moderate fire hazard when exposed to heat or flame

SECTION 5: REACTIVITY DATA

Stable X Unstable

Incompatibilities:	strong acids, and oxidizing agents
Hazardous Decomposition or byproducts:	n/a
Hazardous Polymerization:	n/a

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):
Permissible Exposure Limit: n/a

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Toxicity:

Oral LD50 (rat):	400-800 mg/kg
Inhalation LC100 rats:	7500 ppm/1.2 hours
Dermal, rabbits:	Found to be non-toxic at the 1000 mg/kg dosage

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Remove all ignition sources. Ventilate area of spill and leak. For small spills use suitable absorbent material and collect for later disposal. For large spills there may require diking to contain spill. Material can then be collected (eg.suction) for later disposal. Wear protective equipment during clean-up. After collection of material, flush area with water.

Disposal: Dispose of material in accordance with standard practice for disposal of potentially hazardous material as required by applicable federal, state, or local laws.

SECTION 8: FIRST AID PROCEDURES

Eyes: Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. Get medical attention.

Skin: Wash exposed area twice with soap and water. The exposed area should be examined by medical personnel if irritation or pain persists after the area has been washed.

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Get medical attention.

Ingestion: If conscious, induce vomiting to prevent further absorption. Give oxygen if respiration is shallow. Get medical attention. Do not give anything by mouth to an unconscious person.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Protect containers against physical damage. Wear protective equipment when performing maintenance on contaminated equipment. Store outside or in detached storage. Inside storage should be in standard flammable liquids storage room or cabinet if material is flammable or combustible. Keep away from strong acids and oxidizing agents.

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust should be provided

Eye Protection: chemical goggles, face shield if needed; contact lenses should not be worn when handling this material.

Protective Gloves: impervious

Respiratory Protection: NIOSH approved chemical cartridge respirator or supplied air breathing equipment necessary

Other Protective Gear: boots, emergency shower, eyewash station

SECTION 11: TRANSPORT INFORMATION

DOT classification: class 3, flammable liquid, n.o.s. (2,6 lutidine), UN1993, PGIII

DOT pictograms: Flammable 3 label