

# 3-METHYL PYRIDINE

MLP

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms 3-Picoline b-Picoline m-Picoline Pyridine, 3-methyl UN 2313 (DOT)	Liquid Miscible with water.	Colorless	Sweetish, not unpleasant	<p><b>4.1 Flash Point:</b> 97°F C.</p> <p><b>4.2 Flammable Limits in Air:</b> Currently not available</p> <p><b>4.3 Fire Extinguishing Agents:</b> Carbon dioxide, dry chemical, alcohol foam.</p> <p><b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Water may be ineffective.</p> <p><b>4.5 Special Hazards of Combustion Products:</b> Vapors may travel considerable distance to a source of ignition and flashback. Forms explosive mixtures in air. Emits toxic fumes under fire conditions.</p> <p><b>4.6 Behavior in Fire:</b> Currently not available</p> <p><b>4.7 Auto Ignition Temperature:</b> 1000°F</p> <p><b>4.8 Electrical Hazards:</b> Currently not available</p> <p><b>4.9 Burning Rate:</b> Currently not available</p> <p><b>4.10 Adiabatic Flame Temperature:</b> Currently not available</p> <p><b>4.11 Stoichiometric Air to Fuel Ratio:</b> 41.6 (calc.)</p> <p><b>4.12 Flame Temperature:</b> Currently not available</p> <p><b>4.13 Combustion Molar Ratio (Reactant to Product):</b> 10.5 (calc.)</p> <p><b>4.14 Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>7.1 Grades of Purity:</b> 99.5%</p> <p><b>7.2 Storage Temperature:</b> Ambient</p> <p><b>7.3 Inert Atmosphere:</b> Currently not available</p> <p><b>7.4 Venting:</b> Currently not available</p> <p><b>7.5 IMO Pollution Category:</b> C</p> <p><b>7.6 Ship Type:</b> 2</p> <p><b>7.7 Barge Hull Type:</b> Currently not available</p>
<p>Keep people away. AVOID CONTACT WITH LIQUID AND VAPOR. Evacuate area. Wear chemical protective suit with self-contained breathing apparatus. Shut off ignition sources. Call fire department. Stay upwind and use water spray to "knock down" vapor. Notify local health and pollution control agencies.</p>				<p><b>8. HAZARD CLASSIFICATIONS</b></p> <p><b>8.1 49 CFR Category:</b> Flammable Liquid.</p> <p><b>8.2 49 CFR Class:</b> 3</p> <p><b>8.3 49 CFR Package Group:</b> III</p> <p><b>8.4 Marine Pollutant:</b> Yes</p> <p><b>8.5 NFPA Hazard Classification:</b> Not listed</p> <p><b>8.6 EPA Reportable Quantity:</b> Not listed.</p> <p><b>8.7 EPA Pollution Category:</b> Not listed.</p> <p><b>8.8 RCRA Waste Number:</b> Not listed</p> <p><b>8.9 EPA FWPCA List:</b> Not listed</p>	
<p><b>Fire</b> COMBUSTIBLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Wear chemical protective suit with self-contained breathing apparatus. Extinguish with dry chemical, alcohol foam, or CO<sub>2</sub>. Cool exposed containers with water.</p>				<p><b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b></p> <p><b>9.1 Physical State at 15°C and 1 atm:</b> Liquid</p> <p><b>9.2 Molecular Weight:</b> 93.13</p> <p><b>9.3 Boiling Point at 1 atm:</b> 291.2°F = 144°C = 417.2°K</p> <p><b>9.4 Freezing Point:</b> 94°F = -18.3°C = 254.9°K</p> <p><b>9.5 Critical Temperature:</b> Currently not available</p> <p><b>9.6 Critical Pressure:</b> Currently not available</p> <p><b>9.7 Specific Gravity:</b> 0.957</p> <p><b>9.8 Liquid Surface Tension:</b> Currently not available</p> <p><b>9.9 Liquid Water Interfacial Tension:</b> Currently not available</p> <p><b>9.10 Vapor (Gas) Specific Gravity:</b> Currently not available</p> <p><b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> 3.2</p> <p><b>9.12 Latent Heat of Vaporization:</b> Currently not available</p> <p><b>9.13 Heat of Combustion:</b> Currently not available</p> <p><b>9.14 Heat of Decomposition:</b> Currently not available</p> <p><b>9.15 Heat of Solution:</b> Currently not available</p> <p><b>9.16 Heat of Polymerization:</b> Currently not available</p> <p><b>9.17 Heat of Fusion:</b> Currently not available</p> <p><b>9.18 Limiting Value:</b> Currently not available</p> <p><b>9.19 Reid Vapor Pressure:</b> Currently not available</p>	
<p><b>Exposure</b> CALL FOR MEDICAL AID.</p> <p><b>VAPOR</b> Poisonous if inhaled or if skin is exposed. Irritating to eyes, nose and throat. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p> <p><b>LIQUID</b> Poisonous if swallowed or if skin is exposed. Will burn eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.</p>				<p><b>5. CHEMICAL REACTIVITY</b></p> <p><b>5.1 Reactivity with Water:</b> No reaction</p> <p><b>5.2 Reactivity with Common Materials:</b> No reaction</p> <p><b>5.3 Stability During Transport:</b> Stable</p> <p><b>5.4 Neutralizing Agents for Acids and Caustics:</b> Flush with water</p> <p><b>5.5 Polymerization:</b> Not pertinent</p> <p><b>5.6 Inhibitor of Polymerization:</b> Not pertinent</p>	
<p><b>Water Pollution</b> Effect of low concentration on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>				<p><b>6. WATER POLLUTION</b></p> <p><b>6.1 Aquatic Toxicity:</b> Currently not available</p> <p><b>6.2 Waterfowl Toxicity:</b> Currently not available</p> <p><b>6.3 Biological Oxygen Demand (BOD):</b> Currently not available</p> <p><b>6.4 Food Chain Concentration Potential:</b> Currently not available</p> <p><b>6.5 GESAMP Hazard Profile:</b> Bioaccumulation: 0 Damage to living resources: 2 Human Oral hazard: I Human Contact hazard: II Reduction of amenities: XXX</p>	
<p><b>1. CORRECTIVE RESPONSE ACTIONS</b> Stop discharge</p> <p><b>2. CHEMICAL DESIGNATIONS</b></p> <p>2.1 CG Compatibility Group: 9; Aromatic amine 2.2 Formula: C<sub>7</sub>H<sub>9</sub>N 2.3 IMO/UN Designation: 3.3/2313 2.4 DOT ID No.: 2313 2.5 CAS Registry No.: 108-99-6 2.6 NAERG Guide No.: 130 2.7 Standard Industrial Trade Classification: 51577</p>				<p><b>NOTES</b></p>	
<p><b>3. HEALTH HAZARDS</b></p> <p><b>3.1 Personal Protective Equipment:</b> Self contained breathing apparatus, protective clothing, rubber boots, and heavy rubber gloves.</p> <p><b>3.2 Symptoms Following Exposure:</b> HARMFUL if swallowed, inhaled or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation of larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.</p> <p><b>3.3 Treatment of Exposure:</b> INHALATION: Call for medical help. Remove victim to fresh air. If victim is not breathing give artificial respiration. If breathing is difficult, give oxygen. SKIN: Immediately flush with copious amounts of water for at least 15 minutes, while removing contaminated shoes and clothing. EYES: Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by opening the eyelids with fingers.</p> <p><b>3.4 TLV-TWA:</b> Not listed.</p> <p><b>3.5 TLV-STEL:</b> Not listed.</p> <p><b>3.6 TLV-Ceiling:</b> Not listed.</p> <p><b>3.7 Toxicity by Ingestion:</b> Grade 3; LD<sub>50</sub> = 400 mg/kg (rat)</p> <p><b>3.8 Toxicity by Inhalation:</b> Currently not available.</p> <p><b>3.9 Chronic Toxicity:</b> Causes damage to liver and kidney.</p> <p><b>3.10 Vapor (Gas) Irritant Characteristics:</b> Vapor causes severe irritation to eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.</p> <p><b>3.11 Liquid or Solid Characteristics:</b> Severe skin irritant. Causes second and third degree burn on short contact and is very injurious to the eyes.</p> <p><b>3.12 Odor Threshold:</b> Currently not available</p> <p><b>3.13 IDLH Value:</b> Not listed.</p> <p><b>3.14 OSHA PEL-TWA:</b> Not listed.</p> <p><b>3.15 OSHA PEL-STEL:</b> Not listed.</p> <p><b>3.16 OSHA PEL-Ceiling:</b> Not listed.</p> <p><b>3.17 EPA A EGL:</b> Not listed</p>					

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
C U R R E N T L Y  N O T  A V A I L A B L E			C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E		C U R R E N T L Y  N O T  A V A I L A B L E

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
M I S C I B L E		68	0.085		C U R R E N T L Y  N O T  A V A I L A B L E	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.233 0.246 0.259 0.271 0.283 0.295 0.307 0.319 0.330 0.341 0.352 0.363 0.374 0.384 0.394 0.404 0.414 0.424 0.433 0.443 0.452 0.461 0.469 0.478 0.486