

4-AMINOPYRIDINE

APY

CAUTIONARY RESPONSE INFORMATION

Common Synonyms p-Aminopyridine Avitrol 4-Pyridinamine 4-Pyridylamine	Solid (powder) White Sinks and mixes with water.	Slight, characteristic
<p>AVOID CONTACT WITH SOLID OR DUST. KEEP PEOPLE AWAY. Wear positive pressure breathing apparatus and special chemical protective clothing. Stop leak if possible. Call fire department. Isolate and remove discharged material. Notify local health and pollution control agencies. Protect water intakes.</p>		
Fire	<p>Combustible. POISONOUS GASES ARE PRODUCED IN FIRE. Containers may explode in fire. Wear positive pressure breathing apparatus and special chemical protective clothing. Extinguish small fires: dry chemical, carbon dioxide, water spray or alcohol foam; large fires: water spray, fog or alcohol foam. Combat fire from safe distance or protected location (behind barrier) with unmanned monitor nozzle.</p>	
Exposure	<p>CALL FOR MEDICAL AID. DUST POISONOUS. MAY BE FATAL IF INHALED OR ABSORBED THROUGH SKIN. Irritating to eyes, skin and respiratory tract; may burn skin and eyes. Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>SOLID POISONOUS. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN. Irritating to eyes and skin and may cause burns. IF IN EYES OR ON SKIN, flush immediately with running water for at least 15 minutes; hold eyelids open occasionally if appropriate. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature. Effects may be delayed; keep victim under observation. IF SWALLOWED and victim is CONSCIOUS, have victim induce vomiting by touching back of throat with a finger. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.</p>	
Water Pollution	<p>HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>	

1. CORRECTIVE RESPONSE ACTIONS

Stop discharge

2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: Not listed
- 2.2 Formula: C₅H₆N₂
- 2.3 IMO/UN Designation: 6.1/2671
- 2.4 DOT ID No.: 2671
- 2.5 CAS Registry No.: 504-24-5
- 2.6 NAERG Guide No.: 153
- 2.7 Standard Industrial Trade Classification: 51453

3. HEALTH HAZARDS

- 3.1 **Personal Protective Equipment:** Wear positive pressure breathing apparatus and special chemical protective clothing.
- 3.2 **Symptoms Following Exposure:** Extremely toxic. May be fatal if inhaled, swallowed or absorbed through skin. Irritates eyes, skin and mucous membranes. May cause convulsions, dizziness, dyspnea, headache, hypertension, nausea and vomiting, and weakness.
- 3.3 **Treatment of Exposure:** INHALATION: Move victim to fresh air; call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYES OR SKIN: Immediately flush contaminated area with water for at least 15 minutes; hold upper and lower eyelids open occasionally, if appropriate. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature. Effects may be delayed; keep victim under observation. Call physician. INGESTION: If victim is conscious, induce vomiting with syrup of ipecac or have the victim touch the back of the throat with a finger. If victim is unconscious, do nothing except keep victim warm. Call emergency medical care immediately.
- 3.4 TLV-TWA: Not listed.
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 **Toxicity by Ingestion:** Grade 4; LD₅₀ = 20 mg/kg (rat)
- 3.8 **Toxicity by Inhalation:** Currently not available.
- 3.9 **Chronic Toxicity:** Currently not available
- 3.10 **Vapor (Gas) Irritant Characteristics:** Currently not available
- 3.11 **Liquid or Solid Characteristics:** Irritates skin and eyes; may cause burns.
- 3.12 **Odor Threshold:** Currently not available
- 3.13 **IDLH Value:** Not listed.
- 3.14 **OSHA PEL-TWA:** Not listed.
- 3.15 **OSHA PEL-STEL:** Not listed.
- 3.16 **OSHA PEL-Ceiling:** Not listed.
- 3.17 **EPA AEGL:** Not listed

4. FIRE HAZARDS

- 4.1 **Flash Point:** 328°F.O.C.
- 4.2 **Flammable Limits in Air:** Currently not available
- 4.3 **Fire Extinguishing Agents:** Small fires: dry chemical, carbon dioxide, water spray or alcohol foam. Large fires: Water spray, fog or alcohol foam.
- 4.4 **Fire Extinguishing Agents Not to Be Used:** Not pertinent
- 4.5 **Special Hazards of Combustion Products:** Contain highly toxic and irritating fumes including NO_x.
- 4.6 **Behavior in Fire:** Produces highly toxic and irritating fumes. Containers may explode in heat of fire.
- 4.7 **Auto Ignition Temperature:** Currently not available
- 4.8 **Electrical Hazards:** Currently not available
- 4.9 **Burning Rate:** Currently not available
- 4.10 **Adiabatic Flame Temperature:** Currently not available
- 4.11 **Stoichiometric Air to Fuel Ratio:** Currently not available
- 4.12 **Flame Temperature:** Currently not available
- 4.13 **Combustion Molar Ratio (Reactant to Product):** Currently not available
- 4.14 **Minimum Oxygen Concentration for Combustion (MOCC):** Not listed

5. CHEMICAL REACTIVITY

- 5.1 **Reactivity with Water:** No reaction
- 5.2 **Reactivity with Common Materials:** No reaction
- 5.3 **Stability During Transport:** Stable
- 5.4 **Neutralizing Agents for Acids and Caustics:** Currently not available
- 5.5 **Polymerization:** Not pertinent
- 5.6 **Inhibitor of Polymerization:** Not pertinent

6. WATER POLLUTION

- 6.1 **Aquatic Toxicity:** 2.82-7.56 ppm/96 hr/bluegill/ TL₅₀/fresh water at 12-22°C.
- 6.2 **Waterfowl Toxicity:** Currently not available
- 6.3 **Biological Oxygen Demand (BOD):** Currently not available
- 6.4 **Food Chain Concentration Potential:** Currently not available
- 6.5 **GESAMP Hazard Profile:** Not listed

7. SHIPPING INFORMATION

- 7.1 **Grades of Purity:** 98%
- 7.2 **Storage Temperature:** Ambient
- 7.3 **Inert Atmosphere:** Not listed
- 7.4 **Venting:** Not listed
- 7.5 **IMO Pollution Category:** Currently not available
- 7.6 **Ship Type:** Currently not available
- 7.7 **Barge Hull Type:** Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 **49 CFR Category:** Poison
- 8.2 **49 CFR Class:** 6.1
- 8.3 **49 CFR Package Group:** II
- 8.4 **Marine Pollutant:** No
- 8.5 **NFPA Hazard Classification:**

Category	Classification
Health Hazard (Blue).....	3
Flammability (Red).....	-
Instability (Yellow).....	-
- 8.6 **EPA Reportable Quantity:** 1000
- 8.7 **EPA Pollution Category:** C
- 8.8 **RCRA Waste Number:** P008
- 8.9 **EPA FWPCA List:** Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 **Physical State at 15° C and 1 atm:** Solid
- 9.2 **Molecular Weight:** 94.12
- 9.3 **Boiling Point at 1 atm:** 524.3°F. = 273.5°C. = 546.7°K.
- 9.4 **Freezing Point:** 311-316°F. = 155-158°C. = 428-431°K.
- 9.5 **Critical Temperature:** Not pertinent
- 9.6 **Critical Pressure:** Not pertinent
- 9.7 **Specific Gravity:** 1.2607 at 25.3°C. (solid)
- 9.8 **Liquid Surface Tension:** Not pertinent
- 9.9 **Liquid Water Interfacial Tension:** Not pertinent
- 9.10 **Vapor (Gas) Specific Gravity:** Not pertinent
- 9.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
- 9.12 **Latent Heat of Vaporization:** Not pertinent
- 9.13 **Heat of Combustion:** Currently not available
- 9.14 **Heat of Decomposition:** Not pertinent
- 9.15 **Heat of Solution:** Currently not available
- 9.16 **Heat of Polymerization:** Not pertinent
- 9.17 **Heat of Fusion:** Currently not available
- 9.18 **Limiting Value:** Currently not available
- 9.19 **Reid Vapor Pressure:** Currently not available

NOTES

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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
	N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T

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
77	7.700		N O T P E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T