



MATERIAL SAFETY DATA SHEETS

26

Amino pyridine

1. CHEMICAL IDENTITY

Chemical Name : Amino pyridine

Chemical Classification: Toxic

Trade Name :

Synonyms: 2-Aminopyridine, 2-Pyridinamine, alpha-Aminopyridine, o-Aminopyridine, 2-Pyridylamine

Formula : C₅H₆N₂

CAS No: 504-29-0

UN No: 2671

Regulated Identification

Shipping Name :

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
-----------------------	------------	-----------------------	------------

1 Amino pyridine

504-29-0

3

2

4

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 210.6

Physical State: Solid

Appearance: White powder or crystals.

Melting Pt °C: 58.1

Vapour Pressure @ 35°C mmHg: 0.2 (25 °C)

Odour: Characteristic odor.

Vapour Density(Air =1): 3.25

Solubility in water at 30°C g/100ml: Highly soluble. >100 g/100 g water @ 20 °C

Others: Exists as a tautomeric amino and imino forms. Amino form predominates over imino form; ratio 1000:1.

Specific Gravity (Water = 1): 1.065 @ 20°C with respect to water at 4°C

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability : Yes

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC: 68

Autoignition Temperature °C : >630

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Toxic gases and vapors (such as oxides of nitrogen and carbon monoxide) may be released in a fire involving 2-aminopyridine.

Hazardous Polymerization :

Combustible Liquid:

Explosive Material:

Corrosive Material

Flammable Material: Yes

Oxidiser :

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability : Stable under normal temperatures and pressures.
Incompatibility with other material : Oxidizing agents, strong acids, acid chlorides, acid anhydrides
Reactivity :
Hazardous : Nitrogen oxides, carbon monoxide, carbon dioxide.
Reaction Products

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, skin, eyes and ingestion

Effects of Exposure / Symptoms:

Inhalation: Causes respiratory tract irritation. May cause severe headaches, nausea, increased blood pressure, weakness, convulsions, and a stuporous state. Skin: Causes skin irritation. May be fatal if absorbed through the skin. Causes redness and pain. Eyes: Causes eye irritation. Causes redness and pain. Ingestion: May be fatal if swallowed. May cause irritation of the digestive tract. Poison by ingestion.

Emergency Treatment :

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

LD50 (oral-rat) mg/kg:	0.2 g/kg	STEL:	
LC50 (rat) mg/kg:		Odour Threshold:	
Permissible Exposure Limit:	0.5 ppm (2 mg/m ³), skin.	TLV (ACGIH) :	0.5 ppm.

NFPA Hazard Signals	Health	Flammability	Reactivity	Special
	2	0	0	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Wear appropriate protective eyeglasses or chemical safety goggles.

Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage : Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : Carbon dioxide, dry chemical, alcohol foam

Special Procedure : Extinguish fire using agent suitable for type of surrounding fire. Use

water in flooding quantities as fog. Keep run-off water out of sewers and water sources.

Unusual Hazards :

EXPOSURE: First Aid Measures:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

Waste Disposal Method: Dissolve in such combustible solvent as alcohols. Spray the solution into the furnace with afterburner and scrubber. Pour into a mixture of sand and soda ash (9:1). After mixing, burn in furnace.

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :

Contact person

MAILING ADDRESS :

in Emergency :

TELEPHONE / TELEX NOS :

Local Bodies involved :

TELEGRAPHIC ADDRESS :

Standard Packing :

OTHERS :

Trem Card Details / Ref :

10. DISCLAIMER

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/ seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The Government makes no warranties expressed or implied in the respect of the adequacy of this document for any particular purpose.

End of document

Total No. of Pages: 3