

# PYRIDINE

0323

December 2000

CAS No: 110-86-1

RTECS No: UR8400000

UN No: 1282

EC No: 613-002-00-7

Azine

Azabenzene

C<sub>5</sub>H<sub>5</sub>N

Molecular mass: 79.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water in large amounts, carbon dioxide.
<b>EXPLOSION</b>	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>			
<b>Inhalation</b>	Cough. Dizziness. Headache. Nausea. Shortness of breath. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! Redness. Burning sensation (further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>Eyes</b>	Redness. Pain.	Safety spectacles. or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Diarrhoea. Vomiting. Weakness (further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention.

## SPILLAGE DISPOSAL

Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. (Extra personal protection: self-contained breathing apparatus).

## PACKAGING & LABELLING

**EU classification**  
 F Symbol  
 Xn Symbol  
 R: 11-20/21/22  
 S: (2-)26-28  
**UN classification**  
 UN Hazard Class: 3  
 UN Pack Group: II

## EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-98  
 NFPA Code: H 2; F 3; R 0

## SAFE STORAGE

Fireproof. Separated from strong oxidants, strong acids. Cool. Dry. Well closed.

**IPCS**

International  
 Programme on  
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©  
 IPCS 2006

SEE IMPORTANT INFORMATION ON THE BACK.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

**Physical dangers**

The vapour is heavier than air and may travel along the ground; distant ignition possible.

**Chemical dangers**

The substance decomposes on burning producing toxic fumes (nitrogen oxides and hydrogen cyanide - see ICSC # 0492). The substance is a weak base. Reacts violently with strong oxidants and strong acids.

**Occupational exposure limits**

TLV: 1 ppm (as TWA) A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2005).  
MAK: 5 ppm, 16 mg/m<sup>3</sup> Peak limitation category: II(2) (DFG 2005).

**Routes of exposure**

The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

**Inhalation risk**

A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20/C.

**Effects of short-term exposure**

The substance irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system and gastrointestinal tract. Exposure far above the OEL could cause lowering of consciousness.

**Effects of long-term or repeated exposure**

The substance may have effects on the central nervous system, liver, kidneys.

### PHYSICAL PROPERTIES

Boiling point: 115/C  
Melting point: -42/C  
Relative density (water = 1): 0.98  
Solubility in water: miscible  
Vapour pressure, kPa at 20/C: 2.0  
Relative vapour density (air = 1): 2.73

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.03  
Flash point: 20/C c.c.  
Auto-ignition temperature: 482/C  
Explosive limits, vol% in air: 1.8-12.4  
Octanol/water partition coefficient as log Pow: 0.65

### ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

### NOTES

Pyridine can normally be detected by odour at levels well below the TLV. However, perception of the odour may decline quickly. Depending on the degree of exposure, periodic medical examination is indicated. Card has been partially updated in January 2008: see Ingestion First Aid.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information