

4-METHYLPYRIDINE**0803**

March 1999

CAS No: 108-89-4
RTECS No: UT5425000
UN No: 2313
EC No: 613-037-00-8

4-Picoline
gamma-picoline
p-Picoline
 $C_6H_7N / (C_5H_4N)CH_3$
Molecular mass: 93.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	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 spray, carbon dioxide.
EXPLOSION	Above 57°C explosive vapour/air mixtures may be formed.	Above 57°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		PREVENT GENERATION OF MISTS!	
Inhalation	Burning sensation. Cough. Dizziness. Drowsiness. Headache. Nausea. Sore throat. Unconsciousness. Weakness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	MAY BE ABSORBED! Dry skin. Redness. Burning sensation. Pain. Blisters. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Severe deep burns.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain. Burning sensation. Diarrhoea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
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. Chemical protection suit including self-contained breathing apparatus.	T Symbol R: 10-20/22-24-36/37/38 S: (1/2-)26-36-45 UN Hazard Class: 3 UN Pack Group: III Marine pollutant.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-832/30G35. NFPA Code: H 2; F 2; R 0.	Fireproof. Separated from strong oxidants. Well closed.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance decomposes on burning producing toxic fumes including nitrogen oxides. Reacts with oxidants.

Occupational exposure limits

TLV not established.

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 is corrosive to the eyes and the skin. The vapour of the substance irritates the respiratory tract. Exposure at high level may result in unconsciousness.

Effects of long-term or repeated exposure

The liquid defats the skin.

PHYSICAL PROPERTIES

Boiling point: 144-145°C
 Melting point: 3.7°C
 Relative density (water = 1): 0.96
 Solubility in water: miscible
 Vapour pressure, kPa at 25°C: 0.76

Relative vapour density (air = 1): 3.2
 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02
 Flash point: 57°C (o.c.)
 Explosive limits, vol% in air: 1.3-8.7
 Octanol/water partition coefficient as log Pow: 1.2

ENVIRONMENTAL DATA

NOTES

Also consult ICSC 0801 (2-Methylpyridine) and 0802 (3-Methylpyridine).

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