

NICOTINE

0519

September 1997

CAS No: 54-11-5

RTECS No: QS5250000

UN No: 1654

EC No: 614-001-00-4

(S)-3-(1-Methylpyrrolidin-2-yl)pyridine

3-(1-Methyl-2-pyrrolidinyl)pyridine

beta-Pyridyl-alpha-N-methylpyrrolidine

1-Methyl-2-(3-pyridyl)pyrrolidine

C₁₀H₁₄N₂

Molecular mass: 162.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
EXPLOSION	Above 95/C explosive vapour/air mixtures may be formed.	Above 95/C use a closed system, ventilation.	
EXPOSURE		PREVENT GENERATION OF MISTS! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Burning sensation. Nausea. Vomiting. Convulsions. Abdominal pain. Diarrhoea. Headache. Sweating. Weakness. Dizziness. Confusion.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	MAY BE ABSORBED! Redness. Burning sensation. (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes	Pain. Redness.	Safety goggles, 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	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL

Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. (Extra personal protection: complete protective clothing including self-contained breathing apparatus).

PACKAGING & LABELLING

EU classification

T+ Symbol

N Symbol

R: 25-27-51/53

S: (1/2-)36/37-45-61

UN classification

UN Hazard Class: 6.1

UN Pack Group: II

Do not transport with food and feedstuffs.

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-61G68

NFPA Code: H4; F1; R0

SAFE STORAGE

Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs. Dry. Ventilation along the floor.

IPCS

International Programme on Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

OILY, COLOURLESS HYGROSCOPIC LIQUID, WITH CHARACTERISTIC ODOUR. TURNS BROWN ON EXPOSURE TO AIR.

Chemical dangers

The substance decomposes on heating producing toxic fumes including nitrogen oxides and carbon monoxide. Reacts violently with strong oxidants.

Occupational exposure limits

TLV: 0.5 mg/m³ (as TWA), (skin) (ACGIH 1996).

EU OEL: 0.5 mg/m³ as TWA, (skin) (EU 2006).

Routes of exposure

The substance can be absorbed into the body by inhalation and 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 and the skin. The substance may cause effects on the cardiovascular system and central nervous system, resulting in convulsions and respiratory failure. Exposure far above the OEL may result in death. The effects may be delayed. Medical observation is indicated.

Effects of long-term or repeated exposure

Animal tests show that this substance possibly causes toxic effects upon human reproduction.

PHYSICAL PROPERTIES

Boiling point (decomposes): 247/C

Melting point: -80/C

Relative density (water = 1): 1.01

Solubility in water: miscible

Vapour pressure, kPa at 20/C: 0.006

Relative vapour density (air = 1): 5.6

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.00

Flash point: 95/C c.c.

Auto-ignition temperature: 240/C

Explosive limits, vol% in air: 0.7-4

Octanol/water partition coefficient as log Pow: 1.2

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Avoid release to the environment in circumstances different to normal use.

NOTES

Destruxol, XL All Insecticide are trade names.

Card has been partially updated in August 2007: see Ingestion First Aid, Occupational Exposure Limits EU Classification.

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