



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 13849
Product Name : PYRIDINE

Manufacturer/supplier identification
Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No : 110-86-1 EC No. : 203-809-9
Molar Mass : 79.10 EC Index No. : 613-002-00-7
Molecular Formula : C₅ H₅N

3. HAZARDS IDENTIFICATION

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed.

4. FIRST AID MEASURES

After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation/mechanical ventilation.
After skin contact : Wash off with plenty of water.
Remove contaminated clothing.
After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Summon eye specialist.
After swallowing : Avoid vomiting. Risk of aspiration! Summon doctor.
No gastric lavage. No milk.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water, CO₂, Foam, Powder
Special risks : Combustible. Vapours heavier than air. Formation of explosible mixtures possible with air.
The following may develop in event of fire : nitrous gases.
Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
Other information : Take measures to prevent electrostatic charging. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures : Do not inhale vapours/aerosols.
Avoid substance contact.
Procedures for cleaning/absorption : Take up with liquid-absorbent



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material (e.g. Chemizorb). Forward for disposal. Clean up affected area.
Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE

Handling : Take measures to prevent electrostatic charging.
Storage : Tightly closed. In a well-ventilated place. Keep away from sources of ignition and heat. At +15° C to +25° C.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protective equipment :

Required when vapours/aerosols are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration & quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene: Immediately change contaminated clothing. Apply skin protective barrier cream. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Colourless
Odour	:	Characteristic (unpleasant)
pH value at 15 g/l H ₂ O (20° C)	:	8.5
Viscosity dynamic (20° C)	:	0.95 mPa*s
Melting temperature	:	-41.8° C
Boiling temperature	:	115.5° C
Ignition temperature	:	550° C
Flash Point	:	17° C
Explosion limit lower	:	1.7 Vol %
upper	:	10.6 Vol %
Vapour pressure (20° C)	:	20 hPa
Relative vapour density	:	Not available
Density (20° C)	:	0.98 gm/cm ³
Solubility in Water (20° C)	:	Soluble
Log P(oct)	:	1.04

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.

Substances to be avoided : fluorine, halogen-halogen compounds, chromates/perchromates, CrO₃, nitric acid, peroxi compounds, nitrogen oxides, sulphur oxides, anhydrides.

Hazardous decomposition products : No information available

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Further information : Hygroscopic; highly inflammable; unsuitable working materials : various plastics, rubber. Explosible with air in a vaporous/gaseous state.

11. TOXICOLOGICAL

Acute toxicity : LD₅₀ (oral, rat) : 891 mg/kg.
LC₅₀ (inhalation, rat) : 4000 ppm(V)/4 h.
Further toxicological information :
After inhalation : Irritant effect.
After skin contact : Risk of absorption.
After eye contact : Irritations.
After swallowing : nausea, headache, restlessness, insomnia.
In high doses : cardiovascular disorders, collapse, narcosis.
Chronic uptake results in damage of : Liver, kidneys.
Good warning effect due to low odour threshold.
Further data : Further hazardous properties cannot be excluded.
The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Behavior in environmental compartments : Distribution :
log P(oct) : 1.04; Low bioaccumulation potential.
Ecotoxic effects : Biological effects : Toxic for aquatic organisms.
Risk of formation of explosive vapours above water surface.
Forms toxic mixtures in water, dilution measures not with standing.
Fish toxicity : fish LC₅₀ : 240 mg/l.; L.idus LC₅₀ : 225 mg/l.
Daphnia toxicity : Daphnia magna LC₅₀ : 240 mg/l.
Bacterial toxicity : M.aeruginosa EC₀ : 28 mg/l.;
Sc.quadricauda EC₀ : 120 mg/l. ; Protozoa : E.sulcatum EC₀ : 3.5 mg/l.

Further ecologic data : Do not allow to enter waters, waste water or soil !.

13. DISPOSAL METHOD

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like house-hold waste or recycled.

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. Approved waste disposal companies which will advise you on how to dispose of special waste.

14. TRANSPORT INFORMATION

GGVS/GGVE class : 3 Number and letter : 3b
Transport over land ADR/RID class : 3 Number and letter : 3b
ADR/RID and GGVS/GGVE : Name of material : PYRIDINE

Sea Transport IMDG : IMDG class : 3.2 UN No. : 1282 Packing group : II
Ems : 3-02 MFAG : 325
Correct Technical Name : PYRIDINE



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Air Transport ICAO-TI and IATA-DGR : ICAO/IATA class : 3 UN No. : 1282 Packaging group : II
Correct Technical Name : PYRIDINE

15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : F Highly flammable

R-phrases : 11-20/21/22 Highly flammable. Harmful by inhalation, in contact with skin and if swallowed.

S-phrases : 26/28 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

EC-No. : 203-809-9 EC label

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration :

General update.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.