



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 32325
Product Name : PHENYL HYDRAZINE

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

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: Hydrazinobenzene

CAS-No. : 100-63-0 EC-No. : 202-873-5
EC-Index-No. : 612-023-00-9 M : 108.14 g/mol
Formula (Hill) : C₆H₈N₂ Chemical formula : C₆H₅NHNH₂
Molecular formula (Hill) : ----

3. HAZARDS IDENTIFICATION

May cause cancer. Also toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact. Also toxic: danger of serious damage to health by prolonged exposure through inhalation , in contact with skin and if swallowed . Very toxic to aquatic organisms. Possible risks of irreversible effects.

Restricted to professional users .Attention- Avoid exposure – obtain special instructions before use.

4. FIRST AID MEASURES

After skin contact : Wash off with plenty of water. Remove contaminated clothing. Call in physician.
After eye contact : Rinse out with plenty of water with the eyelid held open. Call in ophthalmologist.
After inhalation : Fresh air. Call in physician.
After swallowing : If victim is still conscious, make him drink plenty of water, induce vomiting, administer activated charcoal(20-40 g in 10% slurry).
Immediately call in physician.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : CO₂ , foam, powder.

Special risks : Combustible. Vapours heavier than air. Formation of hazardous combustion gases or vapours possible in event of fire. The following may develop in event of fire: nitrous gases.

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.



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Other information: Non- combustible Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures : Avoid substance contact. Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms.

Environmental –protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption: Take up with liquid-absorbent material (e.g. Chemizorb). Forward for disposal. clean up affected area.

7. HANDLING AND STORAGE

Handling : Notes for safe handling : Work under hood. Do not inhale substance. Avoid generation of vapours/aerosols.

Storage : Tightly closed . In a well-ventilated place. Keep away from sources of ignition and heat. Protected from light. At 15° C to 25°C.

Accessible only for authorized persons.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Specific control parameter:

EC Name : Phenylhydrazine.

Carcinogenic : C 2 : should be regarded as if it is carcinogenic to man.

Mutagenic : M 3 : substance which cause concern for man owing possible mutagenic effects.

Sensitization : Danger of sensitisation of the skin.

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

Respiratory protection : Required when vapours/aerosols are generated.

Filter A (acc. To DIN 3181) for vapours of organic compounds; Filter K (acc. To DIN 3181) for NH₃

Eye protection : Required

Hand protection :

In full contact :

Glove material : Butyl rubber

Layer thickness : 0.7 mm

Break through time : > 480 Min.

In splash contact :

Glove material : butyl rubber

Layer thickness : 0.7 mm

Break through time : > 480 Min



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The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for

example KCL 898 Butoject (full contact), 898 Butoject (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. To EN 374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, internet : www.kcl.de).

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands after working with substance. Under no circumstances eat/drink at workplace. Work under hood. Do not inhale substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Reddish-brown
Odour	:	Aromatic
pH value (25°C)	:	alkaline undiluted
Viscosity dynamic (20°C)	:	17.1 mPa *s
Melting temperature	:	19.6° C
Boiling temperature (1013 hPa)	:	244° C
Ignition temperature	:	195° C
Flash point	:	86° C
Explosion limits lower	:	1.1 vol %
Upper	:	Not available
Vapour pressure (20° C)	:	0.1 hPa
Density (20° C)	:	1.10 g/cm ³
Solubility in water (25°C)	:	145 g/l
Ethanol (20°C)	:	Freely soluble
Log Pow	:	1.9
Thermal decomposition	:	Above boiling point

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating.

Substance to be avoided : strong oxidizing agents, metallic oxides/air, halogenated hydrocarbons, sulfides, organic halides, perchloryl fluoride, surface-active substances.

Hazardous decomposition products : In the event of fire : See chapter 5.

Further information : Explosible with air in a vaporous/gaseous state when heated.



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11. TOXICOLOGICAL INFORMATION: ACUTE TOXICITY

LD₅₀ (oral,rat): 188 mg/kg. LD₅₀(inhalation,rat): 2.61 mg/l

Subacute to chronic toxicity : Animal experiments performed under conditions comparable with the workplace situation have show the substance to be carcinogenic. Possible mutagenic effect in humans. The suspicion is based on

proven damage to the genetic material in the somatic cells of man and animal requires further clarification.

Further toxicological information : When vapours /aerosols are generated.

After inhalation: Irritations of the mucous membranes, coughing and dyspnoea. Possible damages : pulmonary oedema(Latency time until onset of action.).

After skin contact : Irritations. Danger of skin absorption.
Risk of skin sensitisation.

After eye contact : Irritations. Risk of corneal clouding.

After absorption of toxic quantities : ataxia(impaired locomotor co-ordination), Risk of methaemoglobin formation with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea and spasms, principal symptom: cyanosis (blue discoloration of the blood).Latency time until onset of action.
Irreversible damage possible.

Further data :

The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Behavior in environmental compartments : log P(o/w) : 1.9.

No appreciable bioaccumulation potential is to be expected(log P(o/w) 1-3).

Ecotoxic effects : Biological effects :

Highly toxic for aquatic organisms. Bactericidal effect.

Fish toxicity: Br.rerio LC₅₀ : 016-0.25 mg/l/48h.

Daphnia toxicity : Daphnia EC₅₀ : 2-5 mg/l/48 h.

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

13. DISPOSAL METHOD

Chemicals must be disposed of in compliance with the respective national regulations. Under [www. retrologistik .de](http://www.retrologistik.de) you will find country- and substance -specific information as well as contact partners.

Nice product packaging must be disposed of in compliance with the county-



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specific regulations or must be passed to a packaging return system. Under
www.retrologistik.de you will find special information on the respective
national conditions as well as contact partners.

14. TRANSPORT INFORMATION

Land transport : ADR, RID
UN 2572 PHENYLHYDRAZIN , 6.1, 11

Transport by sea : IMDG, GGVsee
UN 2572 PHENYL HYDRAZINE,6.1, 11

Ems : 6.1-0

Transport by air : CAO, PAX
PHENYLHYDRAZINE, 6.1, UN2572, 11

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T Toxic
N Dangerous for the environment

R-phrases : 45-23/24/25-36/38-43 May cause cancer. Also toxic by inhalation, in
-48/23/24/25-50-68 contact with skin and if swallowed . Irritating
to eyes and skin. May cause sensitisation by skin
contact. Also toxic: danger of serious damage to
health by prolonged exposure through inhalation,
in contact with skin and if swallowed . Very toxic
to aquatic organisms. Possible risks of irreversible
effects.

S-phrase : 53-45-61 Avoid exposure-obtain special instructions before use.
In case of accident or if you feel unwell, seek medical
advice immediately(show the label where possible).
Avoid release to the environment. Refer to special
instructions/ Safety data sheets.

EC-No : 202-873-5 EC label

Reduced labelling (1999/45/EC, Art. 10,4)

Symbol : T Toxic
N Dangerous for the environment.

R-phrases : 45-23/24/25-43-48 May cause cancer. Also toxic by inhalation, in contact
/23/24/25-68 with skin and if swallowed . May cause sensitisation by
skin contact. Also toxic : danger of serious damage to
health by prolonged exposure through inhalation, in



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contact with skin and if swallowed. Possible risks of irreversible effects.

16. OTHER INFORMATION

Chapter 8: specific control parameter.
Chapter 8: personal protective equipment.

Chapter 11: toxicological information.

General update

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.

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.