



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 10119
Product Name : Biphenyl

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 Telefax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : diphenyl
Molecular Formula : $C_{12}H_{10}$
CAS-No : 92-52-4
Ec-Index No. : 601-042-00-8
Molar Mass : 154.21
EC-No. : 202-163-5

3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment



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4. FIRST AID MEASURES

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with eyelids held open.

Summon eye specialist.

After swallowing: Induce vomiting. Drink plenty of water

Summon doctor.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media: powder foam , water, CO₂.

Special risks: Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting: Do not stay in dangerous zone without suitable

Chemical protection clothing and self-contained breathing apparatus.

Other Information: Prevent fire – fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Do not inhale dusts. Avoid generation of dusts. Ensure supply of fresh air in enclosed rooms

Environmental protection measures: Do not allow entering sewage system.

Procedures for cleaning / absorption:

Take up dry. Clean up affected area Forward for disposal.



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7. HANDLING AND STORAGE

Handling: No further requirements

Storage: At +15⁰C to +25⁰C. Tightly closed. No further requirements

8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Personal protective equipment

Respiratory protection: required when dusts are generated

Eye protection: required

Hand protection: required

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

Industrial hygiene: Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance. Under no circumstances eat or drink at work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : crystals

Colour : yellowish

Odour : aromatic

Melting temperature: 68-70 ⁰C

Boiling temperature : 256 ⁰C

PHvalue : Not available

Ignition temperature: 570⁰C

Flash point : 113 ⁰C

Explosion limits lower : 0.7 Vol%

Upper : 3.4 Vol%



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Relative vapour density : Not available
Density (20⁰ C) : Not available
Solubility in
water (20⁰C) : insoluble
ethanol (20⁰C) : soluble
ether(20⁰C) : soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided: no information available

Substance to be avoided: no information available

Hazardous decomposition products: no information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD₅₀(oral, rat):3280 mg/kg

Subacute to chronic toxicity: The possibility of an embryo toxic effect has not yet been fully assessed

Further toxicological information

After inhalation : Irritation

After skin contact: irritations

After eye contact: irritations

After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Further data: Further hazardous properties cannot be excluded.

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



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12. ECOLOGICAL INFORMATION

Ecotoxic effects:

S.gairdnerii LC₅₀ : 1.5 mg/l/96h:

Daphnia magna EC₅₀ : 2.1 mg/l/48h

Further ecologic data: highly toxic for aquatic organisms.

Do not allow to enter waters, waste water, or soil

13. DISPOSAL METHOD

Product : There are no uniform EC regulations for The disposal of chemicals or residues.

Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Packaging : Disposal in compliance with official Regulations . Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class:9 Number and letter:12c

ADR/RID class :9 Number and letter:12c

Name of material : BIPHENYL

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:9 UN –No.:3077 Packaging group: III

Ems : MFAG: 4.2 Correct technical name: BIPHENYL



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Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class:9 UN/ID-No.:3077 Packaging group: III
Correct technical name: BIPHENYL

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xi Irritant

N dangerous for the environment

R- Phrases : 36/37/38-50/53

Irritating to eyes, respiratory system and skin. Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.

S-phrases : 23-60-61

Do not breathe vapour. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration

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.
