



### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY /UNDERTAKING

Product name : DIPHENYL  
Product Number : 92-52-4  
Brand :  
Company : Hangzhou Hennychem Material Co.,Ltd  
1-3-402, SpringRiver times,  
Binjiang District,  
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China  
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### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>12</sub>H<sub>10</sub>  
Molecular Weight : 154,21 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
Diphenyl				
92-52-4	202-163-5	601-042-00-8	Xi, N, R36/37/38 - R50/53	-

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the



work place.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	light yellow to white

### Safety data

pH	no data available
Melting point	69 - 72 °C
Boiling point	255 °C at 1.013 hPa
Flash point	110 °C - closed cup
Ignition temperature	540 °C
Lower explosion limit	0,6 %(V)
Upper explosion limit	5,8 %(V)
Density	0,992 g/cm <sup>3</sup>
Water solubility	insoluble

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides



## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 2.140 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Muscle weakness. Gastrointestinal disturbance

LD50 Dermal - rabbit - > 5.010 mg/kg

### Irritation and corrosion

Skin - rabbit - Severe skin irritation - 24 h

Eyes - rabbit - Mild eye irritation

### Sensitisation

no data available

### Chronic exposure

Carcinogenicity - mouse - Oral

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Blood:Tumors.

Carcinogenicity - mouse - Subcutaneous

Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Liver:Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - mouse - lymphocyte  
DNA damage

Genotoxicity in vitro - mouse - lymphocyte  
Mutation in mammalian somatic cells.

Genotoxicity in vitro - Hamster - Lungs  
Mutation in microorganisms

Genotoxicity in vitro - Hamster - fibroblast  
Sister chromatid exchange

Genotoxicity in vivo - rat - Oral  
Unscheduled DNA synthesis

Genotoxicity in vivo - mouse - Oral  
DNA damage

### Signs and Symptoms of Exposure

Liver injury may occur., Gastrointestinal disturbance

### Potential Health Effects

#### Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

#### Skin

May be harmful if absorbed through skin. Causes skin irritation.

#### Eyes

Causes eye irritation.



**Ingestion** May be harmful if swallowed.  
**Target Organs** Liver, Central nervous system, Peripheral nervous system.,

**Additional Information**  
RTECS: DU8050000

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Bioaccumulation Leuciscus idus (Golden orfe) - 3 d  
Bioconcentration factor (BCF): 281

### Ecotoxicity effects

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1,45 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. LC50 - Daphnia magna (Water flea) - 0,36 mg/l - 48 h

### Further information on ecology

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL)

### IMDG

UN-Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diphenyl)  
Marine pollutant: Marine pollutant

### IATA

UN-Number: 3082 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Diphenyl)

## 15. REGULATORY INFORMATION



### Labelling according to EC Directives

EC Label

Hazard symbols

Xi	Irritant
N	Dangerous for the environment

R-phrase(s)

R36/37/38	Irritating to eyes, respiratory system and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S23	Do not breathe gas/fumes/vapour/spray.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## 16. OTHER INFORMATION

### Further information

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