



---

## MATERIAL SAFETY DATA SHEET

---

### 1 - Product and Company Information

---

Product Name: DIPHENYL PHOSPHORYL AZIDE  
Company : MHX (Changzhou) Biotech Limited

---

### 2 - Hazards Identification

---

Risk advice to man and the environment

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

---

### 3 - Composition/Information on Ingredients

---

DIPHENYL PHOSPHORYL AZIDE

Formula: C<sub>12</sub>H<sub>10</sub>N<sub>3</sub>O<sub>3</sub>P

Molecular Weight: 275,2 g/mol

CAS-No. EC-No. Index-No. Classification Concentration

26386-88-9 247-644-0 - T, R23/24/25 - R36/37/38 -

---

### 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. Take victim immediately to hospital. 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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

## 7 - Handling and Storage

---

### Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

### Storage

Nitrogen protection, keep container tightly closed and store at 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 respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

---



---

## 9 - Physical and Chemical Properties

---

Appearance	Colorless to pale yellow liquid
pH	N/A
BP/BP Range	157 °C at 0,23 hPa
MP/MP Range	N/A
Flash Point	112 °C - closed cup
Flammability	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	1,273 g/cm <sup>3</sup>
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous Data	N/A
Solubility	N/A

---

## 10 - Stability and Reactivity

---

### Storage stability

Stable under recommended storage conditions.

Conditions to avoid Heat.

Materials to avoid acids, Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Oxides of phosphorus

---

## 11 - Toxicological Information

---

### Acute toxicity

no data available

Irritation and corrosion

no data available



#### Sensitisation

no data available

#### Chronic exposure

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.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Potential Health Effects

Inhalation Toxic if inhaled. Causes respiratory tract irritation.

Skin Toxic if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion Toxic if swallowed.

Target Organs Nerves.,

---

### 12 - Ecological Information

---

#### Elimination information (persistence and degradability )

no data available

#### E cotoxicity effects

no data available

#### Further information on ecology

no data available

---

### 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

---

#### IATA

UN#: 3278

Class: 6.1

PG: II

Shipping Name: Organophosphorus compound, toxic, liquid, n.o.s.  
(DIPHENYL PHOSPHORYL AZIDE)

---

### 15 - Regulatory Information

---



美合信生物科技(常州)有限公司

MHX (Changzhou) Biotech Limited

Tel: +86-519-8872 1112, Fax: +86-519-8872 1515

E-mail: [supporting@mhxbio.com](mailto:supporting@mhxbio.com), Website: [www.mhxbio.com](http://www.mhxbio.com)

---

Labelling according to EC Directives

Hazard symbols

T Toxic

R-phrase(s)

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

---

16 - Other Information

---

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.