



# Wuhan Xinru Chemical Industry Co., Ltd

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## MATERIAL SAFETY DATA SHEET

### Product Identification

#### 【Product Name】

4-Bromobiphenyl

#### 【Synonyms】

(4-Bromophenyl)benzene  
1-bromo-4-phenylbenzene  
4-Bromo-1,1'-biphenyl  
p-Biphenyl bromide  
p-Phenylphenyl bromide

#### 【CAS】 92-66-0

#### 【Formula】 C<sub>12</sub>H<sub>9</sub>Br

#### 【Molecular Weight】 233.12

#### 【EINECS】 202-176-6

#### 【RTECS】 DV1750100

#### 【RTECS Class】 Mutagen

#### 【Beilstein/Gmelin】 1907453

#### 【Beilstein Reference】 4-05-00-01819

#### 【EC Class】 irritant

### Physical and Chemical Properties

#### 【Appearance】 Colorless crystals.

#### 【Solubility in water】 Insoluble

#### 【Melting Point】 90 - 91

#### 【Boiling Point】 310



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**【Vapor Pressure】** 0.0011 (25 C)

**【Density】** 1.615 g/cm<sup>3</sup>

**【Partition Coefficient】** 5.44

**【Heat Of Vaporization】** 52.7 kJ/mol

**【Heat Of Combustion】** -6132 kJ/mol

**【Vapor Density】** 8

## First Aid Measures

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### **【Ingestion】**

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

### **【Inhalation】**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### **【Skin】**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

### **【Eyes】**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

## Handling and Storage

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### **【Storage】**

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### **【Handling】**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

## Hazards Identification

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### **【Inhalation】**

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

### **【Skin】**

May cause skin irritation. The toxicological properties of this material have not been fully investigated.

### **【Eyes】**

May cause eye irritation. The toxicological properties of this material have not been fully investigated.

### **【Ingestion】**

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

### **【Hazards】**

Containers may explode when heated.

**【EC Risk Phrase】** R 36/37/38

**【EC Safety Phrase】** S 22 24/25

**【UN (DOT)】** 2315

## **Exposure Controls/Personal Protection**

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### **【Personal Protection】**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

### **【Respirators】**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### **【Exposure Effects】**

The toxicological properties of this substance have not been fully investigated.

## **Fire Fighting Measures**

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**【Flash Point】** 142

### **【Fire Fighting】**



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Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

**【Fire Potential】** This chemical is combustible.

### Accidental Release Measures

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#### **【Small spills/leaks】**

Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Stability and Reactivity

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**【Incompatibilities】** Oxidizing agents.

**【Stability】** Stable under normal temperatures and pressures.

#### **【Decomposition】**

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrogen bromide.

#### **【Combustion Products】**

Fire may produce irritating, corrosive and/or toxic gases.

### Transport Information

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**【UN Number】** 2315

**【Hazard Class】** 9

**【Packing Group】** II

**【HS Code】** 2903 69 90