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MATERIAL SAFETY DATA SHEET

**Product Identification**

**【Product Name】** Diphenyl sulfone

**【Synonyms】**

Phenyl sulfone  
Phenylsulfonylbenzene  
Sulfobenzide

**【CAS】** 127-63-9

**【Formula】** C<sub>12</sub>H<sub>10</sub>O<sub>2</sub>S

**【Molecular Weight】** 218.28

**【EINECS】** 204-853-1

**【RTECS】** SX2400000

**【RTECS Class】** Agricultural Chemical and Pesticide

**【Merck】** 13,3265

**【Beilstein/Gmelin】** 1910573

**【Beilstein Reference】** 4-06-00-01490

**【EC Class】** harmful

**Physical and Chemical Properties**

**【Appearance】** White, crystalline powder.

**【Solubility in water】** Insoluble

**【Melting Point】** 125 - 128

**【Boiling Point】** 379

**【Density】** 1.2102 g/cm<sup>3</sup> (20 °C)

**【Usage】** Ovicide, acaricide.

**【Refractive Index】** 1.5944 (20 °C)

**First Aid Measures**

**【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



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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 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. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

## Hazards Identification

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【Ingestion】 May cause irritation of the digestive tract.

【Inhalation】 May cause respiratory tract irritation.

【Skin】 May cause skin irritation.

【Eyes】 May cause eye irritation.

【EC Risk Phrase】 R 22 36/37/38

【EC Safety Phrase】 S 22 26 36/37/39

## 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.

【Poison Class】 4

## Fire Fighting Measures

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【Flash Point】 184

### 【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire,



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irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## 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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### 【Disposal Code】 3

### 【Stability】

Stable under normal temperatures and pressures.

### 【Incompatibilities】

Strong oxidizing agents.

### 【Decomposition】

Carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.

## Transport Information

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### 【HS Code】 2930 90 70