



# **Diphenyl-d10 Sulfide**

### Section 1. Chemical product and company identifications

Product code: D-5350 Chemical formula: C<sub>12</sub>D<sub>10</sub>S CAS: 180802-01-1 CAS (unlabelled): 139-66-2 Synonyms: Phenyl Sulfide, Diphenyl Thioether

#### Supplier / Manufacturer:

### C/D/N Isotopes Inc.

In case of emergency: **TOXYSCAN HOTLINE: 1-855-780-0599** 

### 88 Leacock Street Pointe-Claire (Québec) H9R 1H1 Phone: 514-697-6254 Toll-Free (Canada & USA): 1-800-565-4696 Fax: 514-697-6148 Website: www.cdnisotopes.com

### Section 2. Hazards identifications

Physical state: Liquid Warning: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Routes of entry: Inhalation, ingestion, skin and eyes

#### GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

GHS Classification:	<ul> <li>Acute toxicity, Oral (Category 4)</li> <li>Skin irritation (Category 2)</li> <li>Eye irritation (Category 2A)</li> </ul>
GHS Label elements:	- Pictograms:
	- Signal word: Warning
Hazards statement:	- H302 Harmful if swallowed.
	- H315 Causes skin irritation.
	- H319 Causes serious eye irritation.
Precautionary statement:	<ul> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301 + P 330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302 + P350 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P317 Get medical help.</li> </ul>

### Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Diphenyl-d <sub>10</sub> Sulfide	180802-01-1	> 98

### Section 4. First aid measures

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Skin contact: Wash off with soap and plenty of water. Consult a physician. **Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# Section 5. Firefighting measures

Flammability of the product: Flammable in the presence of a source of ignition when the temperature is above the flash point. Lower explosion limit: No data available. Upper explosion limit: No data available. Auto-ignition temperature: No data available. Flash point: 126 °C (259 °F) Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, sulphur oxides. Firefighting media and instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

### Section 6. Accidental release measures

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
 Environmental precautions: 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.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation. **Storage:** Store at room temperature. Adequate ventilation.

# Section 8. Exposure Controls, Personal

Engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

Hands: Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 186.27 g/mol Physical status: Liquid Color: Colorless to yellow Odour: Stench Density: 1.113 g/cm<sup>3</sup> Melting point: -40 °C (-40 °F) Boiling point: 296 °C (565 °F) Vapour pressure: No data available Vapour density: 6.42 (Air = 1) Partition coefficient (octanol/water): log Pow: 4.45 Water solubility: No data available

## Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
 Incompatibility: Strong oxidizing agents.
 Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, sulphur oxides.
 Reactivity conditions: No data available.

# Section 11. Toxicological information (unlabelled)

Toxicological data: Diphenyl Sulfide

#### Information on ingredients:

<u>Name</u>	<u>CAS</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
Diphenyl Sulfide	139-66-2	Oral - Rat - 545 mg/kg Dermal - Rabbit - 12,577 mg/kg	No data available

#### **Potential acute effects**

- Eyes: Causes serious eye irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: Harmful if swallowed.

#### **Potential chronic effects**

- **Carcinogenic effects:** 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- Mutagenic effects: No data available.
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: No data available.

### Section 12. Ecological information

### **Ecological data:**

<u>Name</u>	Results	<u>Species</u>	Period
Diphenyl Sulfide	No data available		
Effects on environment: No data available.	ata available.		

Mobility: No data available. Environmental precautions: No data available. Persistence and degradability: No data available. Bioaccumulative potential: No data available.

### Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

### Section 14. Transportation information

### Classification DOT/IMDG/IATA label:

Shipping name: Not dangerous goods UN number: None Class: None Packaging group: None

Additional information: None

### Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 2 Flammable: 1 Reactivity: 0 Special conditions: None

#### Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

#### **U.S. Federal regulations:**

TSCA 8(b) inventory: Diphenyl Sulfide SARA 302/304/311/312 extremely hazardous substances: Not Listed SARA 302/304 emergency planning and notification: Not Listed SARA 302/304/311/312 hazardous chemicals: Not Listed SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard: Listed CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed CWA (Clean Air Act) 112 accidental release prevention: Not Listed CAA (Clean Air Act) 112 regulated flammable substances: Not Listed CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

#### State regulations:

DEA List I Chemicals (Precursor Chemicals): Not Listed DEA List II Chemicals (Essential Chemicals): Not Listed Substances in Massachusetts: Not Listed Dangerous substances in New Jersey: Not Listed New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Not Listed

#### WHMIS (Canada):



D2B - Toxic material causing other toxic effects

## Section 16. Additional information

#### **References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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#### Elaborated by: Toxyscan Inc., 1-866-780-0599

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