

# Safety Data Sheet

In case of emergency:

**TOXYSCAN HOTLINE: 1-855-780-0599** 

## Phoxim-d<sub>5</sub> (phenyl-d<sub>5</sub>) (mixture of isomers)

## Section 1. Chemical product and company identifications

Product code: D-7785

Chemical formula: C<sub>12</sub>H<sub>10</sub>D<sub>5</sub>N<sub>2</sub>O<sub>3</sub>PS

CAS: N/A

CAS (unlabelled): 14816-18-3

**Synonyms:** O,O-Diethyl O-(α-Cyanobenzylideneamino) Phosphorothioate,

 $\alpha\hbox{-[[(Diethoxyphosphinothioyl)oxy]imino]} phenylacetonitrile$ 

#### **Supplier / Manufacturer:**

C/D/N Isotopes Inc.

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## **Section 2. Hazards identifications**

Physical state: Liquid

**Warning:** Toxic if swallowed, in contact with skin or inhaled. **Routes of entry:** Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Acute toxicity, Oral (Category 3)

- Acute toxicity, Dermal (Category 3)
- Acute toxicity, Inhalation (Category 3)
- Respiratory sensitisation (Category 1)
- Reproductive toxicity (Category 2)

.

GHS Label elements: - Pictograms:

- Signal word: Danger

**Hazards statement:** - H301 + H311 + H331Toxic if swallowed, in contact with skin or inhaled.

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- H361 Suspected of damaging fertility or the unborn child.

Precautionary statement: - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- P316 Get emergency medical help immediately.

## Section 3. Composition and information on ingredients

Name CAS Concentration %

Phoxim-d<sub>5</sub> N/A > 98

#### Section 4. First aid measures

**Eye contact:** Flush eyes with water as a precaution.

**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: Not flammable or combustible.

Lower explosion limit: No data available.
Upper explosion limit: No data available.
Auto-ignition temperature: No data available.

Flash point: No data available.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides,

sulphur oxides, phosphorus 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. Discharge into the environment must be avoided.

**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 REFRIGERATED. Adequate ventilation.

## **Section 8. Exposure Controls, Personal Protections**

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: 298.30 g/mol

Physical status: Liquid
Color: Light yellow to brown
Odour: No data available
Density: 1.178 g/cm³
Melting point: 6 °C (43 °F)
Boiling point: No data available
Vapour pressure: No data available
Vapour density: No data available

Partition coefficient (octanol/water): log Pow: 4.39

Water solubility: 4 mg/L

## 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, nitrogen oxides,

sulphur oxides, phosphorus oxides.

**Reactivity conditions:** No data available.

## **Section 11. Toxicological information (unlabelled)**

**Toxicological data:** Phoxim **Information on ingredients:** 

Name CAS LD<sub>50</sub> LC<sub>50</sub>

Phoxim 14816-18-3 Oral - Rat - 300 mg/kg Inhalation - Rat - 1 h - > 3,200 mg/m<sup>3</sup>

Dermal - Rat - 1,000 mg/kg

#### **Potential acute effects**

- Eyes: May cause eye irritation.
- Skin: Toxic if absorbed through skin. May cause skin irritation.
- **Inhalation:** Toxic if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Ingestion: Toxic 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: Suspected of damaging the unborn child. Suspected human reproductive toxicant.
- Medical conditions aggravated by overexposure: No data available.

## **Section 12. Ecological information**

## **Ecological data:**

NameResultsSpeciesPeriodPhoxim0.2 - 0.8 mg/l LC50Oncorhynchus mykiss96 h

Effects on environment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**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: Toxic liquid, organic, n.o.s. (Phoxim)

**UN number:** UN2810

**Class:** 6.1

Packaging group: III

**Additional information: None** 

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 3 Flammable: 0 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: Phoxim

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: Not Listed

CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed

CAA (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: Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

## WHMIS (Canada):



D1B - Toxic material causing immediate and serious toxic effects



D2A - Very toxic material causing other toxic effects 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.

Date of issue: April 7th, 2021

Version: 4

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

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