

## Cyhalothrin-d<sub>9</sub> (phenoxyphenyl-d<sub>9</sub>) (mixture of isomers)

### Section 1. Chemical product and company identifications

**Product code:** D-8271

**Chemical formula:** C<sub>23</sub>H<sub>10</sub>D<sub>9</sub>ClF<sub>3</sub>NO<sub>3</sub>

**CAS:** N/A

**CAS (unlabelled):** 68085-85-8

**Synonyms:** Cyhalothrine; Grenade; Saber

#### Supplier / Manufacturer:

**C/D/N Isotopes Inc.**

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](http://www.cdnisotopes.com)

#### In case of emergency:

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

### Section 2. Hazards identifications

#### 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 2)
- Skin Irritation (Category 2)
- Eye Damage / Irritation (Category 2A)
- Skin sensitization (category 1B)

##### GHS Label elements:

- Pictograms:



- Signal word: Danger

##### Hazards statement:

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.

##### Precautionary statement:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 Wear respiratory protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P302 + P352 IF ON SKIN: wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P330 Rinse mouth.
- P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

- P337 + P313 IF eye irritation persists: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

### **Section 3. Composition and information on ingredients**

<b><u>Name</u></b>	<b><u>CAS</u></b>	<b><u>Concentration %</u></b>
Cyhalothrin-d <sub>9</sub>	N/A	> 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.

**Indication of immediate medical attention and special treatment needed, if necessary:** No data available

**Most important symptoms and effects, both acute and delayed:** No data available

### **Section 5. Firefighting measures**

**Flammability of the product:** Not flammable or combustible.

**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides, hydrogen fluoride gas, hydrogen chloride gas.

**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:** Pick up and arrange disposal without creating dust. 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:** 449.85 g/mol

**Physical status:** Viscous oil

**Color:** Off white to light brown

**Odour:** No data available

**Density:** No data available

**Melting point:** < 10 °C (<50 °F)

**Boiling point:** No data available.

**Vapour pressure:** No data available

**Vapour density:** No data available

**Partition coefficient (octanol/water):** Log Pow: 6.08

**Water solubility:** No data available

**Lower explosion limit:** No data available.

**Upper explosion limit:** No data available.  
**Auto-ignition temperature:** No data available.  
**Flash point:** 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, nitrogen oxides, hydrogen fluoride gas, hydrogen chloride gas.  
**Reactivity conditions:** No data available

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

**Toxicological data:** Cyhalothrin

### **Information on ingredients:**

<u>Name</u>	<u>CAS</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
Cyhalothrin	68085-85-8	Oral - Rat - 144 mg/kg	Inhalation – Rat - 4h - 83mg/m <sup>3</sup>

### **Potential acute effects**

- **Eyes:** Causes serious eye irritation.
- **Skin:** Toxic in contact with skin, causes skin irritation, may cause an allergic skin reaction.
- **Inhalation:** Fatal 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:** No data available.
- **Medical conditions aggravated by overexposure:** No data available.

## **Section 12. Ecological information**

### **Ecological data:**

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
Cyhalothrin	<0.001 mg/l EC50	Daphnia magna	48h

**Effects on environment:** No data 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:** Toxic liquid, organic, N.O.S. (Cyhalothrin)  
**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:**

**California proposition 65 requirements** : Not Listed  
**SARA section 313 (specific toxic chemical listings)** : Listed  
**CERCLA reportable quantity** : Not listed  
**Sections 302-304 reportable quantity** : Not listed  
**Community Right-to-Know (Sections 311 and 312)** : Not Listed

## **Section 16. Additional information**

**Date of issue:** April 4th, 2023

**Version:** 1

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

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*This safety data sheet has been prepared in accordance with the OSHA (USA), WHMIS (Canada) / GHS classification rules in effect at the time of writing.*