

This safety data sheet was created pursuant to the requirements of: HPR, Schedule 1

Revision date 12-Jan-2024 Revision Number 1

## 1. Identification

Product identifier

Product Name Prothiofos-D5

Other means of identification

Product Code(s) TRC-P838843-25MG

Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use No information available

Details of the supplier of the safety data sheet

Initial supplier identifier

Toronto Research Chemicals 2 Brisbane Road Toronto, ON M3J 2J8

Emergency number: +1(416) 665-9696 between 0800-1700 (GMT-5)

Fax: +14166654439 Web: www.trc-canada.com

E-mail sds-request@lgcgroup.com

Emergency telephone number

**Emergency Telephone** 

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

## 2. Hazard identification

### Classification

Classification according to WHIMIS

assingation according to writing			
Acute toxicity - Oral	Category 4		
Acute toxicity - Inhalation (Vapours)	Category 2		
Skin sensitisation	Category 1		



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Specific target organ toxicity — single exposure	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Label elements

### Danger

#### **Hazard statements**

Classification according to WHIMIS
Harmful if swallowed
Fatal if inhaled
May cause an allergic skin reaction
May cause damage to organs
Very toxic to aquatic life with long lasting effects



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust, fume, gas, mist, vapors and spray Use only outdoors or in a well-ventilated area Wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace Wear protective gloves, protective clothing, eye protection and face protection Avoid release to the environment

### **Precautionary Statements - Response**

IF exposed or concerned: Call a POISON CENTER or doctor

#### Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice and attention Take off all contaminated clothing and wash it before reuse

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTRE or doctor

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

#### Spill

Collect spillage

#### **Precautionary Statements - Storage**



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Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

#### Other information

Very toxic to aquatic life.

## 3. Composition/information on ingredients

### Substance

Formula C11H10D5Cl2O2PS2

1	Chemical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
-	Onemical name	0/10/140.	3		date exemption granted
- 1					
-				registry number	(if applicable)
				(HMIRA registry #)	
	Prothiofos-D5	-	90 - 100%	-	

### **Additional information**

This product contains a stable isotope

## 4. First-aid measures

### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel

should) give oxygen. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a doctor.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. Wash off immediately with

plenty of water for at least 15 minutes. If symptoms persist, call a doctor.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor or poison control centre immediately.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Do not breathe vapour or mist. Do



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not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe

vapour or mist. Use personal protective equipment as required. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.



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**Methods for cleaning up** Pick up and transfer to properly labelled containers.

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate

exhaust ventilation. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash it before reuse.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless

other advice is given on the CoA.

## 8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. The protective gloves to be used must comply with the specifications

of EC Directive 89/686/EEC and the related standard EN374.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.



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**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Do not breathe vapour or mist. Remove and wash contaminated clothing and gloves,

including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands

before breaks and after work. Wear suitable gloves and eye/face protection.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour colourless
Odour Slight

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available None known pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressure No data available None known Relative vapour density No data available None known Relative density No data available None known Water solubility No data available None known Solubility in other solvents No data available None known **Partition coefficient** No data available None known No data available **Autoignition temperature** None known **Decomposition temperature** None known

Kinematic viscosity

No data available

No data available

None known

None known

Other information

Explosive properties

Oxidising properties

No information available.

No information available.

No information available.

Molecular weight 350.26

VOC content
Liquid Density
Ro information available
No information available
No information available
No information available



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## 10. Stability and reactivity

#### Reactivity

No information available.

**Chemical stability** 

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on

components).

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available



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Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). May

cause damage to organs if swallowed.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Persistence and degradability No information available.

**Bioaccumulation** No information available.

Other adverse effects No information available.

## 13. Disposal considerations

**Disposal methods** 



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Waste from residues/unused

**nused** Dispose of in accordance with local regulations. Dispose of waste in accordance with

**products** environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

TDG

**UN number or ID number** UN2810

**UN proper shipping name** Toxic liquid, organic, n.o.s. (Prothiofos-D5)

Transport hazard class(es) 6.1
Packing group II
Special Provisions 16
Marine pollutant P.

**Description** UN2810, Toxic liquid, organic, n.o.s. (Prothiofos-D5), 6.1, II

DOT

UN number or ID number UN2810

**Extended proper shipping name** Toxic liquids, organic, n.o.s. (Prothiofos-D5)

Transport hazard class(es) 6.1
Packing group II
DOT Marine Pollutant I.

Marine pollutant Prothiofos-D5

**Description** UN2810, Toxic liquids, organic, n.o.s. (Prothiofos-D5), 6.1, II, Marine pollutant

Special Provisions IB2, T11, TP2, TP13, TP27

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Number

MEX

UN number or ID number UN2810

**UN proper shipping name** Toxic liquid, organic, n.o.s. (Prothiofos-D5)

Transport hazard class(es) 6.1
Packing group

**Description** UN2810, Toxic liquid, organic, n.o.s. (Prothiofos-D5), 6.1, II

Special Provisions 274

**IATA** 

UN number UN2810

**UN proper shipping name** Toxic liquid, organic, n.o.s. (Prothiofos-D5)

Transport hazard class(es) 6.1
Packing group II
ERG Code 6L

Special Provisions A3, A4, A137

**Description** UN2810, Toxic liquid, organic, n.o.s. (Prothiofos-D5), 6.1, II

UN number UN2810

**UN proper shipping name** Toxic liquid, organic, n.o.s. (Prothiofos-D5)



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Transport hazard class(es) 6.1
Packing group II
EmS-No. F-A, S-A
Special Provisions 274
Marine pollutant P

**Description** UN2810, Toxic liquid, organic, n.o.s. (Prothiofos-D5), 6.1, II, Marine pollutant

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA Complies under research and development exemption or is regulated by a different

government agency.

DSL/NDSL
Contact supplier for inventory compliance status.
PICCS
Contact supplier for inventory compliance status.
AllC
Contact supplier for inventory compliance status.
Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## 16. Other information

NFPAHealth hazards4Flammability0Instability0Special hazards-HMISHealth hazards4Flammability0Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



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TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

**Disclaimer** 

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**End of Safety Data Sheet**