# SAFETY DATA SHEET



Revision date 31-Jul-2023 Revision Number 1

### 1. Identification

**Product identifier** 

Product Name ArmorTech Prothio 4L

Other means of identification

Product Code(s) 000187

Synonyms None

Registration Number(s) 89442-61

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

**Restrictions on use** Follow label instructions

Details of the supplier of the safety data sheet

**Company Address** 

PrimeSource, A Division of Albaugh LLC. 1525 NE 36th St Ankeny, IA 50021 USA

## **Emergency telephone number**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. Hazard(s) identification

### Classification

Acute toxicity - Inhalation (Dusts/Mists) Category 4

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Warning

## Hazard statements

Harmful if inhaled



Appearance Liquid Physical state Liquid Odor Paint-like odor

### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

### **Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a doctor if you feel unwell

#### Other information

No information available.

# 3. Composition/information on ingredients

### **Substance**

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Active Ingredient
Prothioconazole	178928-70-6	39.77-42.23	X
1,2,3-Propanetriol	56-81-5	5.70-6.30	
Other Ingredients	PROPRIETARY	>50.00	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

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

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

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

person. Get medical attention.

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. Avoid breathing vapors or mists.

Use personal protective equipment as required. See section 8 for more information.

Revision date 31-Jul-2023

\_\_\_\_\_

Most important symptoms and effects, both acute and delayed

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

### 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

No information available.

**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 breathing vapors or mists. Use personal protective

equipment as required.

**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.

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

### 7. Handling and storage

Precautions for safe handling

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

vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

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.

# 8. Exposure controls/personal protection

### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
1,2,3-Propanetriol	-	TWA: 15 mg/m³ mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m³ mist,	
		respirable fraction	

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological 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** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color white

Odor Paint-like odor

Odor threshold No information available

Property Values Remarks • Method

**pH** 4.5 - 5.5

pH (as aqueous solution)

Melting point / freezing point
Initial boiling point and boiling rangeNo data available
Flash point
Evaporation rate
Flammability
No data available
No data available
No data available
Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

Revision date 31-Jul-2023

limits

No data available Vapor pressure Relative vapor density No data available Relative density No data available Water solubility No data available No data available Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** 

**Decomposition temperature** 

903.543 (20°C) Kinematic viscosity No data available **Dynamic viscosity** 

Other information

**Explosive properties** No information available Oxidizing properties No information available No information available Softening point Molecular weight No information available No information available **VOC** content 1 163\*

**Liquid Density** 

No information available **Bulk density** 

# 10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Excessive heat.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

### **Product Information**

Specific test data for the substance or mixture is not available. Harmful by inhalation. (based Inhalation

on components).

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

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

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Coughing and/ or wheezing. **Symptoms** 

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

<sup>\*</sup>Listed density is an approximate value and does not necessarily represent that of a specific batch

Revision date 31-Jul-2023

 Oral LD50
 3129 mg/kg

 Dermal LD50
 > 5000 mg/kg

 Inhalation LC50
 > 2.10 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Prothioconazole 178928-70-6	> 6200 mg/kg (Rat)	> 2000 mg/kg(Rat)	> 5 mg/L (Rat)4 h
1,2,3-Propanetriol 56-81-5	= 12600 mg/kg(Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³(Rat)1 h

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

**Skin corrosion/irritation** Slightly irritating to the skin.

Serious eye damage/eye irritation Mildly irritating.

**Respiratory or skin sensitization** Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

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

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

**Target organ effects** Kidney, Respiratory system, Eyes, Skin.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	-	EC50: >500mg/L (24h,
56-81-5		Oncorhynchus mykiss)		Daphnia magna)

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

Component information			
Chemical name		Partition coefficient	
1,2,3-Propanetriol		-1.76	
	56-81-5		

Other adverse effects No information available.

# 13. Disposal considerations

### **Disposal methods**

Waste from residues/unused

products

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

environmental legislation.

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

# 14. Transport information

#### TDG

Notes No components found suitable for Technical Name.

UN number or ID number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III
Special Provisions 16, 99

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III

**DOT** Not regulated

ICAO (air)

UN number or ID number UN3082
Transport hazard class(es) 9
Packing group III

Special Provisions A97, A158, A197, A215

**IMDG** 

UN number or ID number
Transport hazard class(es)
Packing group
EmS-No
Special Provisions
UN3082
9
III
F-A, S-F
274, 335, 969

Marine pollutant P

### 15. Regulatory information

U.S. EPA Label Information

**EPA Pesticide Registration Number** 89442-61

**EPA Pesticide Label**CAUTION Harmful if swallowed or inhaled.

## **International Inventories**

**TSCA** Does not comply **DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply Does not comply **IECSC** Does not comply **KECL PICCS** Does not comply Does not comply AIIC

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

AIIC - Australian Inventory of Industrial Chemicals

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
1,2,3-Propanetriol 56-81-5	X	X	Х

## 16. Other information

NFPAHealth hazards2Flammability0Instability0Special hazards-HMISHealth hazards2Flammability0Physical hazards0Personal protectionX

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

Legend Section 8: Exposure controls/personal protection

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

Ceiling Maximum limit value \* 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

Australia 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)

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

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

World Health Organization

Revision date 31-Jul-2023

Revision Note No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**End of Safety Data Sheet** 

\_\_\_\_\_