



## Maxunitech North America, Inc.

**SAFETY DATA SHEET**

Issue Date 1-Feb-2023

Version #1

**1. IDENTIFICATION****Product identifier****Product Name** Maxunitech® Prothioconazole 480SC**Other means of identification****Synonyms**

PROTHIOCONAZOLE: 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione (CAS name) ; 2-[(2RS)-2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2H-1,2,4-triazole-3(4H)-thione (IUPAC name)

**Registration Number(s)** PCP No. 34735**Recommended use of the chemical and restrictions on use****Recommended Use** Fungicide  
**Uses advised against** Use according to label**Supplier's details**Maxunitech North America, Inc.  
11601 Shadow Creek Pkwy, Suite 111-573  
Pearland, TX  
77584, USA**Emergency telephone number****Company Phone Number** 1-855-462-9621**Emergency Telephone** For spills or transportation accidents, Chemtrec, 1-800-424-9300.**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture****Classification according to Regulation (GHS Rev.9)**Acute oral- Category 5  
Hazardous to aquatic environment, acute -Category 1  
Hazardous to aquatic environment, chronic -Category 1**GHS label elements, including precautionary statements**

Pictograms

Signal word Warning

Hazard statement(s)

H303 May be harmful if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention



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P273 Avoid release to the environment.

Precautionary statement(s) Response  
 P301+ P317 IF SWALLOWED: Get medical help.  
 P391 Collect spillage.

Precautionary statement(s) Storage

Precautionary statement(s) Disposal  
 P501: Dispose of contents/container in according with local regulation.

## Other hazards which do not result in classification

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### Mixture

Chemical Name	CAS No.	%
Prothioconazole	178928-70-6	41.0

### 4. FIRST AID MEASURES

#### Description of necessary first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

#### Indication of immediate medical attention and special treatment needed

**Treatment** Treat symptomatically. There is no specific antidote.



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### 5. FIRE-FIGHTING MEASURES

#### Suitable (and unsuitable) extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** High volume water jet.

#### Special hazards arising from the chemical

In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulphur dioxide (SO<sub>2</sub>).

#### Advice for fire-fighters

**Special protective equipment for fire-fighters** In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Additional instruction** Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**Environmental precautions** Keeping away from drains, surface and ground water.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

Store in a place accessible by authorized persons only. Store in original container. Keep containers tightly closed in a dry, cool and wellventilated place. Keep away from direct sunlight. Protect from frost.



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**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Appropriate engineering controls

**Engineering controls** No information available.

#### Individual protection measures, such as personal protective equipment

<b>General Protection</b>	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
<b>Eye/Face Protection</b>	Chemical resistant goggles must be worn.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves.
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Respiratory protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White to off-white liquid
<b>Physical State</b>	Suspension
<b>Odor</b>	Slight odor
<b>Odor threshold</b>	No information available
<b>pH</b>	4.5 - 7.5 (1% solution)
<b>Density</b>	1.1 - 1.25 g/cm <sup>3</sup> (20 °C)
<b>Melting point/freezing point</b>	Not applicable
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	> 96 °C
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Water solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	500 - 1,000 cps ( 20°C)
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

**Thermal decomposition** Stable under normal conditions.



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<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of hazardous reactions</u></b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b><u>Conditions to avoid</u></b>	Extremes of temperature and direct sunlight. freezing
<b><u>Incompatible materials</u></b>	Store only in the original container.
<b><u>Hazardous decomposition products</u></b>	Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides

### 11. TOXICOLOGICAL INFORMATION

#### **Information on the likely routes of exposure**

##### **The acute toxicity information of the formulated product:**

<b>LD<sub>50</sub> Oral</b>	> 2,000 - < 5,000 mg/kg (female rat)
<b>LD<sub>50</sub> Dermal</b>	> 5,000 mg/kg (rat)
<b>LC<sub>50</sub> Inhalation</b>	> 1.6 mg/L 4 h (rat)
	Determined in the form of liquid aerosol. Highest attainable concentration. No deaths

<b>Serious eye damage/eye irritation</b>	Non-irritating (rabbit).
<b>Skin corrosion/irritation</b>	Slightly irritating (rabbit).
<b>Sensitization</b>	Non-sensitizing (Guinea pig).

#### **Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	To date no symptoms are known.
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#### **Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Assessment STOT Specific target organ toxicity – single exposure</b>	Prothioconazole: Based on available data, the classification criteria are not met.
<b>Assessment STOT Specific target organ toxicity – repeated exposure</b>	Prothioconazole did not cause specific target organ toxicity in experimental animal studies.
<b>Mutagenicity</b>	Prothioconazole was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
<b>Assessment Carcinogenicity</b>	Prothioconazole was not carcinogenic in lifetime feeding studies in rats and mice.
<b>ACGIH</b>	None.
<b>NTP</b>	None.
<b>IARC</b>	None.
<b>OSHA</b>	None.



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<b>Reproductive toxicity</b>	Prothioconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Prothioconazole is related to parental toxicity.
<b>Developmental Toxicity</b>	Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Further information</b>	Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The ecotoxicity information of the formulated product unless otherwise noted:

<b>Toxicity to fish</b>	Rainbow trout ( <i>Oncorhynchus mykiss</i> ) LC <sub>50</sub> : 1.83 mg/l Exposure time: 96 h  The value mentioned relates to the active ingredient prothioconazole.
<b>Toxicity to aquatic plants</b>	<i>Anabaena flosaquae</i> EC <sub>50</sub> : 3.5 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient prothioconazole.  <i>Selenastrum capricornutum</i> EC <sub>50</sub> : 0.88 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient prothioconazole.  Vascular plant ( <i>Lemna gibba</i> ) EC <sub>50</sub> : 0.0671 mg/L, for frond numbers The value mentioned relates to the active ingredient prothioconazole.
<b>Acute toxicity to aquatic invertebrates</b>	Water flea ( <i>Daphnia magna</i> ) EC <sub>50</sub> : 1.2 mg/l Exposure time: 48 h  The value mentioned relates to the active ingredient prothioconazole.

#### Persistence and Degradability

<b>Biodegradability</b>	Prothioconazole: Not rapidly biodegradable
<b>Koc</b>	Prothioconazole: Koc: 1765

#### Bioaccumulative potential

<b>Bioaccumulation</b>	Prothioconazole: Does not bioaccumulate.
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#### Mobility in soil

Prothioconazole: Slightly mobile in soils.

#### Other adverse effects

No other effects to be mentioned.



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## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	<p>Dispose in accordance with all local, state/provincial and federal regulations.</p> <p>Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.</p> <p>Follow container label instructions for disposal of wastes generated during use in compliance with the product label.</p>
<b>Contaminated packaging</b>	<p>Do not re-use empty containers.</p> <p>Triple rinse containers.</p> <p>Puncture container to avoid re-use.</p> <p>Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.</p> <p>If burned, stay out of smoke.</p> <p>Follow advice on product label and/or leaflet.</p>

## 14. TRANSPORT INFORMATION

### TDG

<b>UN number</b>	<b>3082</b>
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE SOLUTION)
<b>Hazard Class</b>	9
<b>Packaging group</b>	III
<b>Marine pollutant</b>	YES

### IMDG

<b>UN number</b>	<b>3082</b>
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE SOLUTION)
<b>Hazard Class</b>	9
<b>Packaging group</b>	III
<b>Marine pollutant</b>	YES

### IATA

<b>UN number</b>	<b>3082</b>
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE SOLUTION)
<b>Hazard Class</b>	9
<b>Packaging group</b>	III
<b>Environm. Hazardous Mark</b>	YES

**49CFR** Not dangerous goods / not hazardous material.

**Special precautions for user** See sections 6 to 8 of this Safety Data Sheet.



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### Further Information

Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1.

This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

### 15. REGULATORY INFORMATION

#### US Federal Regulations

##### **TSCA list**

None.

##### **US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

##### **SARA Title III - Section 302 - Notification and Information**

None.

##### **SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

#### US States Regulatory Reporting

##### **CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

##### **US State Right-To-Know Ingredients**

None.

#### Canadian Regulations

##### **Canadian Domestic Substance List**

None.

##### **Any other Canadian specific regulatory information**

Read the label, authorized under the *Pest Control Products Act*, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the *Pest Control Products Act*. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:



**CAUTION**

**POISON**

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

#### Environmental

##### **CERCLA**

None.

##### **Clean Water Section 307 Priority Pollutants**

None.





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## Safe Drinking Water Act Maximum Contaminant Levels

None.

## International Regulations

### European Inventory of Existing Commercial Substances (EINECS)

None.

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. Acgih Threshold Limit Values
CAS-No.	Chemical Abstracts Service number
ECx	Effective Concentration to x %
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IARC	International Agency for Research on Cancer
LCx	Lethal Concentration To x %
LDx	Lethal Dose to x %
N.O.S.	Not Otherwise Specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OSHA	US. Occupational Safety and Health Administration
TDG	Transportation of Dangerous Goods
TWA	Time Weighted Average
UN	United Nations

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### Disclaimer

The information provided in this Material 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.

**End of Safety Data Sheet**