SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: PRONT 480 SC

Relevant identification uses of the substance and uses advised against:

Identified uses: FUNGICIDE.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Green Island Investments Pty Ltd
P.O Box 1822, Heidelberg 1438

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

Serious eye damage/eye irritation	Category 2 - H319
Specific target organ toxicity (single exposure)	Category 3 - H335
Acute aquatic toxicity	Category 1 - H400
Chronic Aquatic Toxicity	Category 1 - H410

Additional information
For the full text of the H-Statements mentioned in this Section, see Section 16

Label elements

signal word WARNING

Hazard Statements
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor P501 - Dispose of contents/ container in accordance with national regulation

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: **Mixture**

Ingredients:

Chemical name	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Prothioconazole	178928-70-6	48%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Emulson AG TRST	52315-08-8	> 5%	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)
Mono Ethylene Glycol	107-21-1	> 8%	Skin Sens. 1 (H317)

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:
If swallowed, do not induce vomiting. Immediately rinse mouth with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: May cause mild irritation.
Skin Contact: May cause skin irritation, itchiness and reddening. Eye Contact: Causes eye irritation, stinging and reddening.
Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways. May cause irritation, reddening and burning sensation to mouth and throat.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, foam dry chemical and water fog.
SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.
LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.
Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode if pressure builds up. Toxic or irritating gas may be generated during fire.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
For emergency responders: Use an approved/certified respirator or equivalent, isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

Environmental precautions:

Cover drains. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.
For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use adequate protective equipment to avoid direct contact of product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Toxic if swallowed and fatal if inhaled. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Respiratory protection is required; use an approved air-purifying respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid suspension.
Odour: Slight characteristic odour.
pH: 7.0@ 20°C.
Melting point: Not available.
Freezing Point: Not available.
Boiling Point: Not available.
Flash Point: Not available.
Flammability: Not flammable.
Upper/lower explosion limits: Not available.
Vapour Pressure (mm Hg): Not available.
Relative Vapour Density: Not available.
Density/Relative density: 1.18 g/cm3@ 20°C.
Solubility: Suspends in water.
n-octanol/water partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Slightly reactive to reactive with reducing agents, alkalis.

Conditions to avoid:

Reducing agents and alkalis.

Incompatible materials:

Reducing agents and alkalis.

Hazardous decomposition products:

No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
Based on experimental data.
Oral LD50 (24 h) rat 5000 mg/kg.
Dermal LD50 (24 h) rat >2000 mg/kg.
Inhalation LC50 (4 h) >5,124 mg/l air.
Skin Irritation/Corrosion: Not classified as a skin irritant.
Eye Damage/Irritation: Not classified as an eye irritant.
Skin Sensitization: Not considered as positive for skin sensitization.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity – single exposure: Not available**.**
Specific target organ toxicity – repeated exposure: Not available**.**
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: May be harmful if inhaled.
Skin contact: May be harmful in contact with skin.
Eye contact: None known.
Ingestion: May be harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:
This product is very toxic to aquatic life with long lasting effects.
ECOTOXICITY DATA: Based on active ingredient.
Fish:
LC50 (96 h) Rainbow trout 1.83 mg/*l*.
Daphnia:
Acute LC50 (48 h) 1.30 mg/*l*.
Algae:
EbC50 subchronic *P. subcapitata* 1.10 mg/*l*.
ErC50 *P. subcapitata* 2.18 mg/*l*.
Birds:
Acute oral LD50 Bobwhite quail >2000 mg/kg.
Dietary LC50 (5 d) Bobwhite quail >5000 mg/kg.
Bees: Not Harmful
LD50 (oral) >71 µg/bee.
(contact) >200 µg/bee.
Worms:
LC50 (14 d) Earthworms >1000 mg/kg dry soil.
Plants:
The metabolism of prothioconazole proceeds through oxidative and cleavage reactions. The major metabolites are prothioconazole-desthio and triazolylalanine, triazolylhydroxypropionic acid and triazolylacetic acid. No free 1,2,4-triazole was detected in any plant matrix.

ENVIRONMENTAL EFFECTS:
Persistence and degradability: Prothioconazole is rapidly degraded to prothioconazole-desthio and prothioconazole –*S*-methyl. Parent compound and metabolites show low potential for leaching or accumulation. For prothioconazole, prothioconazole-desthio and prothioconazole-*S*-methyl, soil DT50 (lab.,20°C) 0.07-1.3 d, 7-34 d, and 6-46 d, respy.; Koc 1765 ml/g, 523-625 ml/g and 1974-2995 ml/g, respy. Prothioconazole degraded rapidly in water/sediment systems under aerobic conditions (DT50 for total system 2-3 d); major metabolites are prothioconazole-desthio and 1,2,4-triazole (detected in the water layer) and prothioconazole-*S*-methyl (in sediment).
Bio-accumulative Potential: Does not bio-accumulate.
Mobility in soil: Slightly mobile in soils.
Other adverse effects: Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(prothioconazole 480 SC)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(prothioconazole 480 SC)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(prothioconazole 480 SC)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	yes	yes	yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required.

Emergency response information: No information.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021.UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections.

Relevant H statements (number and full text):

Aquatic chronic 1: Hazardous to the aquatic Environment (Chronic 1)

H302: Harmful if swallowed.

H318: Causes serious eye damage.

Training instructions: No special training required. Read label of product.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.