

### 1: Identification of the Substance and Supplier

Product Name Pilot
Recommended Use Fungicide

Company Details Orion AgriScience Ltd

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 www.orionagriscience.co.nz

 Email Address
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**Telephone Number** (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision November 2017

### 2: Hazards Identification

**Hazard Pictograms** 





Priority Identifiers: Harmful, Ecotoxic, Keep Out of Reach of Children

HSNO Classes: Secondary Identifiers:

**6.1E** May be harmful if swallowed, inhaled or absorbed through the skin

6.3B May cause mild skin irritation6.4A May cause eye irritation

**6.9B** May cause organ damage from repeated ingestion at high doses

**9.1C** Harmful to aquatic organisms

## 3: Composition/ Information on Ingredients

3. Composition, Information on ingredients		
Ingredient	CAS No	Content (% w/v)
Prothioconazole (active ingredient)	178928-70-6	25
Aromatic hydrocarbon solvent	64742-94-5	70
Other ingredients, surfactants, water, etc	Proprietary	Remainder

#### 4: First Aid Measures

**Skin Contact:** In case of contact, immediately wash affected area with soap and water. Wash contaminated clothing before

reuse. Seek medical advice if irritation persists.

**Eye Contact:** Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek

medical advice immediately.

**Ingestion:** Do not induce vomiting. Seek medical advice immediately.

Inhalation: Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical

advice immediately.

Workplace Facilities: Hand wash facility. Eye wash facility.

Advice to Doctor: No specific antidote. Treat symptomatically.

National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Page: 1 of 5



#### 5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable (but may be combustible in a fire)

HAZCHEM Code 3Z ERP Guide No 47

**Extinguishing Media** Water spray, foam, sand, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

#### 6: Accidental Release Measures

**Caution:** Floors may be slippery if wet. When dealing with spills wear personal protective clothing and equipment as described in section 8. Prevent further spillage or leakage. Keep bystanders away. Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill

	7: Storage,	Handling	and Use
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**Storage:** Keep out of reach of children. Store in the original, tightly closed container, in a secure, well ventilated

area away from feed or foodstuffs.

Handling and Use: Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of spray mist. Mix in a

well ventilated area. When mixing or applying, wear protective clothing as described in section 8. Do not eat, drink or smoke while using. Wash hands and face after use. Wash protective clothing after use.

Approved HandlerNot required.TrackingNot required.

Record Keeping Not required.

**REI** Until spray has dried

Site Requirements under the HSNO

Act 1996 and HSNO Regulations:

A location test certificate is not required

A hazardous atmosphere zone is not required

· Fire extinguishers are not required

• Signage is required for 1000 litres or more

Emergency information is required for 5 litre or more

An emergency plan is required for more than 1000 litres

Secondary containment is required for more than 1000 litres.

• Separation/Segregation from incompatible substances is not applicable.

Additional Requirements All aspects of storage, handling, use, disposal and record keeping must be in accordance.

All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.

### 8: Exposure Control / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Product – None established (Use lowest practicable level).

Standards Active ingredient - None established (Use lowest practicable level).

Excipients - None established (Use lowest practicable level). Recommendation: Hydrocarbon solvent 15 ppm (8 hr

TWA) 30 ppm (15 min STEL)

Others - None established (Use lowest practicable level).

**Engineering Controls** Limited given nature of use.

Personal Protection:

Eye Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying.

**Skin**Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves.

**Respiratory**Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is

required.

Page: 2 of 5



### 9: Physical and Chemical Properties

Form Amber liquid

Odour Aromatic solvent

Boiling Point Not available

Flash Point >94 °C

Auto ignition Temperature Not available

**Explosive Limits** Not available. May for explosive mixtures in enclosed or poorly ventilated areas.

Density1.03 g/mL (approx)Vapour PressureNot availableVapour DensityNot volatileSolubility in WaterEmulsifiable

**pH** 5.0 – 9.0 (1% emulsion)

Oxidising Properties Not an oxidizer

Corrosive Properties Not a corrosive

### 10: Stability and Reactivity

**Stability** Stable under normal conditions.

**Incompatibility**Avoid mixing with strong acids, alkalis, and oxidizing agents such as chlorine compounds, ammonium

nitrate, etc.

**Decomposition** Decomposition will not occur under normal conditions.

**Dangerous Reactions** Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

#### 11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

**Swallowed** Nausea, vomiting, diarrhea and gastrointestinal discomfort. The solvent in this product may cause

bronchopneumonia or pulmonary oedema if aspirated into the lungs from ingestion or from vomiting.

**Eye** Irritation.

**Skin** Mild irritation. Prolonged or repeated contact may result in degreasing of the skin and dermatitis.

**Inhalation** Irritation, headache, dizziness, nausea, vomiting.

Acute Toxicity (Active Ingredient) • Acute Oral LD50 (Rat) 2500 mg/kg

• Acute Dermal LD50 (Rat) > 4000 mg/kg

Inhalation LC50 (4 hr) (Rat) >5 mg/l

Sensitisation EffectsNoneMutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNone

Teratogenic (Birth) Effects None

Systemic Effects May cause damage to organs through prolonged or repeated exposure.

#### 12: Ecotoxicity Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

### The following information is presented in respect of the active ingredient:

• Acute Oral LD50 (Bobwhite quail) >2000 mg/kg

• LC50 (96 hr) (Rainbow trout) 4.02 mg/l

LC50 (48 hr) (Daphnia) 2.9 mg/l

• Algae EC50 (72 hr) 12.7 mg/l

• Non - toxic to bees

Page: 3 of 5



**Environmental Fate**Biodegradable. DT50 (soil) 0.5 days (typical)

Partition Co-Efficient (Kow) LogP = 3.82 (high)
Environmental Exposure Limit: None established.

13: Disposal Considerations

**Product** Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container Triple rinse empty containers and add the rinseate to the spray tank. Dispose of to a suitable landfill or

agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods Not classified dangerous for transport

Passenger Service Vehicle: Maximum quantity 1.0 litres

15: Regulatory

Glossary

HSNO Approval No HSR101126
ACVM Registration No P9510

**16: Other Information** 

**Approved Handler** For some hazardous substances, persons storing, handling and using must be trained and certified

**DT50** Time (days) for 50% reduction in concentration

**EC50** Concentration required to produce an effect in 50% of organisms

**Emergency Information** A safety note provided in a place of work

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

**ERP Guide** Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

HAZCHEM Code Emergency action code for emergency services
HSNO Hazardous Substances and New Organisms

IER Guide Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

**LC50** Concentration that will kill 50% of organisms

**LD50** Dose that will kill 50% or organisms

Location Test Certificate A certificate provided by a test certifier where quantities of explosive, flammable or oxidising substances

are stored or used and the quantity exceeds the threshold specified

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

Partition Co-Efficient (Kow)

Ratio of concentration between octanol and water. Values are given as the log value. A high value

indicates a substance may bioaccumulate

Record Keeping Includes a spray diary

**REI** Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Safety Note A brief document providing hazardous substance information for transport, storage and emergency

management purposes

STEL Short term exposure level

**Tolerable Exposure Limit** Maximum concentration limit of a substance above which persons must not be exposed

Page: 4 of 5



**Tracking** For some hazardous substances, a record must be kept of the transport, storage, sale and use of the

product

**TWA** Time weighted average

Workplace Exposure Standard 
An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Wide Dispersive Use A method of application involving equipment such as boom sprayers, mist blowers, vine sprayers, row

sprayers, etc., as well as aerial application. Hand gunning within 30m of a property boundary is also

classed as wide dispersive use. Knapsack sprayers are not classed as wide dispersive use

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label, Safety Note and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Always read the product label before use.

Page: 5 of 5