

1: Identification of the Substance and Supplier

Product Name
Recommended Use
Suppliers Details

Web Address Email Address Telephone Number Emergency Telephone National Poison Centre Date of Issue/Revision

PRO-P Fungicide Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545 www.orionagriscience.co.nz orders@orionagriscience.co.nz (03) 928 2386 (office hours), 0800 674 6627 (free phone)

0800 CHEMCALL (0800 243 622) (24 hours)

0800 POISON (0800 764 766) (24 hours)

March 2025

2: Hazards Identification

Hazard Pictograms

Signal Words Hazard Classes: Flammable Liquid (Cat. 2) Acute oral toxicity (Cat. 4) Skin Irritation (Cat. 2) Eye Irritation (Cat. 2) Skin Sensitisation (cat 1) Reproductive Toxicity (Cat. 1) Specific target organ toxicity (repeated exposure) (Cat. 2) Hazardous to the aquatic environment acute (Cat. 1) Hazardous to the aquatic environment chronic (Cat. 1) Hazardous to terrestrial vertebrates Hazardous to soil organisms Precautionary Statements:

Prevention

Danger

Hazard Statements:
H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H360 May damage fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H433 Harmful to terrestrial vertebrates
H423 Harmful to the soil environment
P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read carefully and follow all instructions
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking
P233 Keep container tightly closed
P240 Ground and bond container and receiving equipment
P241 Use explosion proof electrical/ventilating/lighting equipment
P242 Use non sparking tools
P243 Take action to prevent static discharges
P280 Wear protective gloves/protective clothing/eye protection/face protection
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment



Response	 P272 Contaminated work clothing should not be allowed out of the workplace P264 Wash hands thoroughly after handling P260 Do not breathe dust/fume/gas/mist/vapours/spray Explosive concentrations of vapours may form in enclosed or poorly ventilated areas. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. When mixing or applying, wear personal protection as described in section 8. Take off contaminated clothing and wash before reuse. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water (or shower) P370+P378 In case of fire use water spray, foam, dry chemical or C02 to extinguish. Avoid water jet P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell P330 Rinse mouth P332+P313 If exposed or concerned: Get medical advice/attention P322+P352 IF ON SKIN: Wash with plenty water P321 Specific treatment (Refer to section 4) P333+P313 If skin irritation occurs: Get medical advice/attention P332+P313 If skin irritation or rash occurs: Get medical advice/attention P342+P348 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention P347+P313 If eye irritation persists: Get medical advice/attention P347+P313 If eye irritation persists: Get medical advice/attention P347+P313 If eye irritation persists: Get medical advice/attention P344 Get medical advice/attention if you feel unwell P317 Collect spillage First aid measures described in section 4. Fire extinguishing instructi
Storage	Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) 24 hrs P403+P235 Store in a well ventilated place. Keep cool
Disposal	P405 Store locked up Keep out of reach of children P501 Dispose of contents by using it in accordance with this label. Dispose of the container via AgRecovery after triple rinsing (use the rinsate for spraying).
	container via Agrecovery after triple finding (use the finduction spraying).

3: Composition/ Information on Ingredients		
Ingredient	CAS No	Content (% w/v)
Propiconazole (active ingredient)	60207-90-1	25
Toluene	108-88-3	30 - 60
Other ingredients	Proprietary	Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice. For advice call the National Poisons Centre or a Doctor.

Ingestion:	Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell
Skin Contact:	Take off immediately all contaminated clothing. Rinse affected areas with water (or shower). Wash with
	plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.
	Seek medical advice if irritation persists.



Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling	
	unwell.	
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)	
Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:		
Ingestion: Skin Contact:	Burning sensation, abdominal pain, headache, nausea, dizziness Irritation	
Eye Contact:	Irritation	
Inhalation:	Cough, sore throat, dizziness, drowsiness, headache, nausea, unconsciousness	

5: Fire-Fighting Measures	
Fire/Explosion Hazard	Flammable liquid and vapour.
HAZCHEM Code	3YE
ERP Guide No	14
Extinguishing Media	Water spray, foam, 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.
Specific Hazards Arising from Fire	No data available

6: Accidental Release Measures	
Personal Precautions	Caution: Floors may be slippery if wet. Eliminate all ignition sources and naked lights. Use non-sparking
	equipment. Leave and/or avoid entering confined spaces. Wear personal protective clothing and equipment
	as described in section 8. Respiratory protection (with organic vapour cartridge) required for any spill other
	than minor. Exclude non-essential people from the area.
Environmental Precautions	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
Clean Up	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: Handling and Storage	
Storage:	Keep out of reach of children. Store in the original tightly closed container in a cool, well ventilated, locked
	and secure area.
Handling and Use:	Refer to Prevention statements in section 2 above. Exclude people and animals from the application area,
	both during application and for the duration of the REI.
REI	Until spray has dried

8: Exposure Controls / Personal Protection	
Tolerable Exposure Limit	None established
Workplace Exposure Standards	Toluene – 50 ppm / 188 mg/m3 (8hr TWA)
Engineering Controls	Select spray application equipment to minimize exposure to operator and bystanders
Personal Protection:	
Еуе	Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying
Skin	Chemical resistant coveralls with hood tightly fitting at head, wrists and ankles (e.g., Tychem F suit),
	chemical resistant boots and chemical resistant gloves (barrier multilayer, nitrile, neoprene, butyl).
Respiratory	Not required where vapour or spray mist is not inhaled. Otherwise, respirator (organic vapour and
	particulate matter) is required.

Clean protective equipment after use



Appearance	Amber Liquid
Odour	Solvent
Odour Threshold	Does not apply
рН	Does not apply
Melting Point/Freezing Point	Does not apply
Boiling Point	Does not apply
Flash Point	11°C (closed cup)
Flammability	Flammable liquid and vapour. May form explosive mixture in enclosed or poorly ventilated areas
Upper/Lower Flammability Limits	Does not apply
Vapour Pressure	Does not apply
Vapour Density	> 1 (heavier than air)
Relative Density	0.95 g/mL (approx.)
Solubility in Water	Emulsifiable
Partition Coefficient: n-octanol/water	See section 12
Auto ignition Temperature	Does not apply
Decomposition Temperature	Does not apply
Kinematic Viscosity	Does not apply
Particle characteristics	Does not apply

10: Stability and Reactivity	
Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	Hazard classification 1, 2, 3.2, 4, 5
Hazardous Decomposition Products	None Known

11: Toxicological Information

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

Acute Oral Toxicity	LD50 > 300 mg/kg
Acute Dermal Toxicity	LD50 > 5000 mg/kg
Acute Inhalation Toxicity	LD50 > 1 mg/L
Skin corrosion/irritation	Irritant
Serious eye damage/Eye irritation	Irritant
Respiratory or skin sensitisation	Information not available
Germ cell mutagenicity	Information not available
Carcinogenicity	Information not available
Reproductive Toxicity	Toluene is a suspected human reproductive or developmental toxicant
Specific Organ Toxicity – Single	Information not available
exposure	
Specific Organ Toxicity – Repeated	Ingestion or inhalation of toluene vapour has effects on the central nervous system. Animal feeding studies
exposure	on propiconazole have found effects on the liver
Aspiration hazard	Information not available

12: Ecological Information

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

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

- Acute Oral LD50 (Japanese quail) 2223 mg/kg
- LC50 (96 hr) (Rainbow trout) 5.3 mg/l
- EC50 (48 hr) (Daphnia) 4.8 mg/l



	 Algae EC50 0.02 – 13.6 mg/l 	
	Non-toxic to bees	
Persistence/degradability	Biodegradable. DT50 (soil) 71 days (typical)	
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = 3.72 (high)
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 1086 (slightly mobile)
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	Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other
	purpose.

14: Transport Information	
Dangerous Goods	
UN Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (TOLUENE 60%)
Class	3
Subsidiary Class	None
Packing Group	II
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 litres
Passenger Service Vehicle	1 litre maximum

15 Regulatory Information	
EPA Approval No	HSR000601
ACVM Registration No	P5987
Qualified Person	Required
Certified Handler	Not required
Workplace Only	No
Tracking	Not required
Record Keeping	Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)
Site Requirements under EPA Notice	• A hazardous substance location compliance certificate is required for more than 100 L (closed
and HSWHS Regs:	 containers > 5 L size), 250 L (closed containers ≤ 5 L size), or 50 L (open containers) A hazardous area is required
	 Separation distances for class 3 and class 6 substances to protected places and public places is applicable
	• Fire extinguishers are required for more than 250 L (2 fire extinguishers)
	Signage is required for more than 100 L
	An emergency response plan is required for more than 100 L
	Secondary containment is required for more than 100 L
	• Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is required
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information	
SDS review date	14 March 2025
Glossary	
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are



	expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and
	6.1B)
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals
Hazardous Substance Location	For locations storing hazard substances of certain classes above threshold quantities
Compliance Certificate	
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% or organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road
	by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and
	other details as described
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10
	form, as an indicator that a substance may bioaccumulate
Protected Place	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where
	people assemble
Public Place	A place frequented by the public, including roads (does not include private property)
Qualified Person	A requirement for the loader, contractor or person applying the product to hold a qualification such as a
	GROWSAFE Certificate, Unit Standard 21563, etc.
Record Keeping	Includes a spray diary or other record of application
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.
Segregation	Certain classes of substances must not be in contact with, and must be stored separately from, certain
	other classes as specified in HSWHS Regs
Separation Distances	The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous
	substances and protected places and/or public places
Signage	Positioned at entrances to commercial premises providing information on the hazardous substances
	present
Soil Adsorption Coefficient (Kd)	The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid
	phase. The higher the value the less mobile the chemical is in soil
Soil Organic Carbon-Water	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the
Partitioning Coefficient (Koc)	soil. The higher the value the less mobile the chemical is in soil
STEL	Short term exposure level – 15 minute time weighted average



Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed
Tracking	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use
	of the product
TWA	Time weighted average calculated over an 8 hour working day
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are
	exposed
Workplace Only	A product that is restricted to a workplace only and under the supervision of a certified handler
Please Note	
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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 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.