

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

Herbicide
Orion AgriScience Ltd
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0800 CHEMCALL (0800 243 622) (24 hours)
0800 POISON (0800 764 766) (24 hours)
July 2020

2: Hazards Identification

3.1B Flammable Liquid (Cat. 2)

6.3A Skin Irritation (Cat. 2)

6.4A Eye Irritation (Cat. 2)

6.1D Acute Toxicity (Dermal Cat. 4)

6.8B Reproductive Toxicity (Cat. 2)

9.1A Aquatic Ecotoxicity (Cat. 1)

Precautionary Statements:

Prevention

9.3C Terrestrial Vertebrate Ecotoxicity

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

6.1D Acute Toxicity (Inhalation Cat. 4)

Hazard Pictograms

Signal Words

Hazard Classes:

Danger

Hazard Statements: H225 Highly flammable liquid and vapour H312 Harmful if in contact with skin H332 Harmful if inhaled H315 Causes skin irritation H319 Causes serious eye irritation H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure 6.9B Target Organ Systemic Toxicity (Inhalation Cat. 2) H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic organisms with long lasting effects Harmful to terrestrial vertebrates 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 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 P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well ventilated area P264 Wash hands thoroughly after handling P203 Obtain, read and follow all safety instructions before use P260 Do not breathe dust/fume/gas/mist/vapours/spray

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	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.
Response	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+P317 IF SWALLOWED: Get medical help
	P330 Rinse mouth
	P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing P317 Get medical help
	P302+P352 IF ON SKIN: Wash with plenty water
	P321 Specific treatment (Refer to section 4)
	P322+P317 If skin irritation occurs: Get medical help
	P362+P364 Take off contaminated clothing and wash it before reuse
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do so. Continue rinsing
	P337+P317 If eye irritation persists: Get medical help
	P318 If exposed or concerned, get medical advice
	P319 Get medical help if you feel unwell
	P391 Collect spillage
	First aid measures described in section 4. Fire extinguishing instructions described in
	section 5. Contain and collect spillage for disposal. In an emergency call 111, Police or
	Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) 24 hrs
Storage	P403+P235 Store in a well ventilated place. Keep cool
	P405 Store locked up
	Keep out of reach of children
Disposal	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).

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: Skin Contact:	Rinse mouth. Seek medical advice Wash with plenty of soap and water. Seek medical advice if irritation occurs
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: Eye Contact:	Burning sensation, abdominal pain, headache, nausea, dizziness Irritation 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:		
Eye	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

9: Physical and Chemical Properties		
Appearance	Amber Liquid	
Odour	Solvent	
Odour Threshold	No data available	



рН	Not Applicable
Melting Point/Freezing Point	No data available
Boiling Point	No data available
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	No data available
Vapour Pressure	No data available
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	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available

10: Stability and Reactivity	
Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	None Known
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 Irritant/Corrosive	Irritant
Eye Irritant/Corrosive	Irritant
Sensitisation Effects	None
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	Toluene is a suspected human reproductive or developmental toxicant
Specific Organ Toxicity	Ingestion or inhalation of toluene vapour has effects on the central nervous system. Animal feeding studies
	on propiconazole have found effects on the liver

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 Bio	odegradable. DT50 (soil) 71 days (typical)	
Bioaccumulative Potential	ctanol-water partition coefficient	LogP = 3.72 (high)
Soil Mobility Sc	oil organic carbon water partitioning coefficient	Koc = 1086 (slightly mobile)
Environmental Exposure Limit: No	one 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 \leq 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	
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)

Time (days) for 50% reduction in concentration

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

DT50



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 soil.
Partitioning Coefficient (Koc)	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	



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.