

SAFETY DATA SHEET

CYGUARD LIQUID

1: Identification of the Substance and Supplier

Product Name	CYGUARD LIQUID
Recommended Use	Ectoparasiticide
Company Details	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
Web Address	www.orionagriscience.co.nz
Email Address	orders@orionagriscience.co.nz
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	July 2015

2: Hazards Identification

Hazard Pictograms	
Priority Identifiers:	Toxic, Ecotoxic, Keep Out of Reach of Children
HSNO Classes:	Secondary Identifiers:
6.1E	May be harmful if swallowed, inhaled or absorbed through the skin
6.9B	May cause organ damage from repeated ingestion at high doses
9.2C	Harmful to soil organisms
9.4C	Harmful to terrestrial invertebrates

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Cyromazine (active ingredient)	66215-27-8	50
Other ingredients	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 if irritation persists.
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)

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-Flammable
HAZCHEM Code	N/A
ERP Guide No	N/A
Extinguishing Media	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

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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

Storage:	Keep out of reach of children. Store in the original, tightly closed container, in a secure area.
Handling and Use:	Keep out of reach of children. Avoid contact with eyes and skin. When using, 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 Handler	Not required.
Tracking	Not required.
Record Keeping	Not required.
Site Requirements under the HSNO Act 1996 and HSNO Regulations:	<ul style="list-style-type: none">• 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 1 litre or more• An emergency plan is required not required• Secondary containment is not required• Separation/Segregation from incompatible substances is not applicable.
Additional Requirements	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 Standards	Product – None established (Use lowest practicable level). Active ingredient – None established (Use lowest practicable level). [Recommendation: Acetochlor 0.1 mg/m ³ (8hr TWA)] Excipients – None established (Use lowest practicable level). [Recommendation: Light petroleum distillate 1200 mg/m ³ (8 hr TWA)]
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, chemical resistant boots and gloves (barrier multilayer, nitrile, neoprene).
Respiratory	Not required where spray mist or vapour is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

9: Physical and Chemical Properties

Appearance	Yellow Liquid
Odour	Odourless
Boiling Point	>100 °C
Flash Point	Not applicable
Auto ignition Temperature	Not available
Explosive Limits	Not available
Density	1.2 g/mL (approx.)
Vapour Pressure	Not available
Vapour Density	Not available
Solubility in Water	Dispersible
pH	7.0 – 8.0
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.
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	Information not available.
Eye	Non-irritant.
Skin	Non-irritant.
Inhalation	Information not available.

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Acute Toxicity (Active Ingredient)

- Acute Oral LD50 (Rabbit) 1467 mg/kg
- Acute Dermal LD50 > 2000 mg/kg
- Inhalation LC50 (4 hr) > 5 mg/l

Sensitisation Effects

None

Mutagenic Effects

None

Carcinogenic Effects

None

Reproductive Effects

None

Teratogenic (Birth) Effects

None

Systemic Effects

Animal feeding studies on cyromazine have found effects on the blood and the hematopoietic system.

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:

Ecotoxic Effects

- Acute Oral LD50 (Rabbit) 1467 mg/kg
- LC50 (96 hr.) (Rainbow trout) >100 mg/l
- EC50 (48 hr) (Daphnia) > 1000 mg/l
- NOEC (96 hr.) >100 mg/l
- Non toxic to bees

Environmental Fate

Biodegradable. DT50 (soil) 10 days typical.

Partition Co-Efficient (Kow)

LogP = 0.07 (low)

Environmental Exposure Limit:

- **Product:** None established
- **Active Ingredient:** None established
- **Excipients:** None established

13: Disposal Considerations

Product Dispose of product by using it in accordance with the label. Do not burn. 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 agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods

UN Number	Not Classified
Proper Shipping Name	Not Applicable
Class	Not Applicable
Subsidiary Class	Not Applicable
Packing Group	Not Applicable
Additional Information	Not Applicable
MTQ (Non-Commercial)	Not Applicable
Passenger Service Vehicle	Maximum quantity 10 litres

15: Regulatory

HSNO Approval No	HSR002223
ACVM Registration No	A11137

16: Other Information

Glossary

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
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

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HAZCHEM Code	Emergency action code for emergency services
HSNO	Hazardous Substances and New Organisms
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% of organisms
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
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.