



MATERIAL SAFETY DATA SHEET

Unlock Cyromazine Spray On

Issue date: July, 2015 Review date: July, 2023

SECTION 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product name: UNLOCK CYROMAZINE SPRAY-ON

Recommended Use: Ectoparasiticide

Company identification Address:

1229 Maraekakaho Road
Hastings 4175
New Zealand
Phone (06) 873 3611

Poisons Information Centre: 0800-764-766

Or CHEMCAL 0800-243-622 24hr emergencies only

Transport Emergency 111 Fire and police

SECTION 2: HAZARD IDENTIFICATION

2.1 Hazard Pictograms



2.1 Priority Identifiers: Toxic, Ecotoxic, Keep Out of Reach of Children

2.2 HSNO Classes: Secondary Identifiers:

6.3A = May cause skin irritation

6.4A = May cause eye irritation

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

9.1D = Very toxic to aquatic organisms

SECTION 3: COMPOSITION INFORMATION

INGREDIENT	CAS Number.	Content (% w/v)
Cyromazine (active ingredient)	66215-27-8	6
Acetic acid	64-19-7	<10
Other ingredients	Proprietary	Remainder

SECTION 4: FIRST AID MEASURES

- 4.1 **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.
- 4.2 **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.
- 4.3 **Ingestion:** DO NOT induce vomiting. Seek medical advice immediately.
- 4.4 **Inhalation:** Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical advice immediately.
- 4.5 **Workplace facilities:** Hand wash facility. Eye wash facility.

- 4.6 **Advice to Doctor:** No specific antidote. Treat symptomatically.
- 4.7 **National Poison Centre:** 0800 POISON (0800 764 766) (24 hours)

SECTION 5: FIRE FIGHTING MEASURES

- 5.1 **Fire/Explosion Hazard:** Not flammable
- 5.2 **HAZCHEM Code:** N/A
- 5.3 **ERP Guide No:** N/A
- 5.4 **Extinguishing Media:** Water spray, foam, dry chemical or CO2. Avoid water jet.
- 5.5 **Fire Fighting Instructions:** During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

SECTION 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.

SECTION 7: HANDLING AND STORAGE

- 7.1 **Storage:** Keep out of reach of children. Store in the original, tightly closed container in a secure area.
- 7.2 **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.
- 7.3 **Approved Handler:** Not required.
- 7.4 **Tracking:** Not required.
- 7.5 **Record Keeping:** Not required.
- 7.6 **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 1 litre or more
 - An emergency plan is required for more than 10000 litres
 - Secondary containment is not required for more than 10000 litres
 - Separation/Segregation from incompatible substances is not applicable.
- 7.7 **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.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

- 8.1 **Tolerable Exposure Limit:** None established.
- 8.2 **Workplace Exposure Standards:**
 None established (Use lowest practicable level).
 Active ingredient – Non established (use lowest practicable level)
 Excipients – Acetic acid 10 ppm (25 mg/m³) (8 hr TWA); 15 ppm (37 mg/m³) (15 min STEL)
- 8.3 **Engineering Controls:** Limited given nature of use.
- 8.4 **Personal Protection:**
 Eye – Safety glasses/goggles.
 Skin – Cotton overalls snugly fitting at the neck, wrist and ankle, boots and water proof gloves.
 Respiratory – Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

SECTION 9: PHYSICAL DESCRIPTION / PROPERTIES

Appearance:	Red / Pink Liquid
Odour:	Odourless
Boiling point	>100°C
Flash point:	Not applicable
Auto ignition temperature:	Not available
Explosive Limits:	Not available
Density:	1.1 g/mL (approx.)
Vapour Pressure:	Not available
Vapour Density:	Not available
Solubility in Water:	Dispersible
pH:	3.0 – 5.0
Oxidising Properties:	Not an oxidizer
Corrosive Properties:	Not a corrosive

SECTION 10: STABILITY AND REACTIVITY

- 10.1 **Stability:** Stable under normal conditions.
- 10.2 **Incompatibility:** Avoid mixing with strong acids, alkalis and oxidizing agents.
- 10.3 **Decomposition:** Decomposition will not occur under normal conditions.
- 10.4 **Dangerous Reactions:** Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

SECTION 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:	May cause eye irritation.
Skin:	May cause skin irritation.
Inhalation:	Information not available
Acute Toxicity	Acute Oral LD50 (Rabbit) 1467 mg/kg
(Active ingredient)	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.

SECTION 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:

- 12.1 **Ecotoxicity Effects:** Acute Oral LD50 (Rabbit) 1467 mg/kg
 LC50 (95 hr) (Rainbow trout) 100 mg/l
 EC50 (48 hr) (Daphnia) >1000 mg/l
 NOEC (96 hr) > 100 mg/l
 Non toxic to bees
- 12.2 **Environmental Fate:** Biodegradable. DT50 (soil) 10 days typical.
- 12.3 **Partition Co-Efficient (Know):** LogP = 0.07 (low)
- 12.5 **Environmental Exposure Limit:** Product: None established
 Active Ingredient: None established
 Excipients: None established

SECTION 13: DISPOSAL INFORMATION

- 13.1 **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 or large quantities contact Orion AgriScience Ltd.
- 13.2 **Container:** Dispose of to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

SECTION 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 1 litres

SECTION 15: REGULATORY INFORMATION

HSNO Approval No:	HSR001792
ACVM Registration No:	A11946

SECTION 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	Maximum concentration limit of a substance in an environmental medium, eg 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
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 Know	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 summarise 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.

DISCLAIMER

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.