

Section 1 – Identification of the substance/preparation and the company

Product Name: INOVATA CYRO-LIQUID
Company: Inovata Ltd
Address: 16 Sheffield Crescent
 PO Box 20 449
 Christchurch
Telephone Number: 0800 942 006
Manufacturer Product Code: AICLXXXX
Recommended Use: For the preventative control of blowfly strike on sheep.

Section 2 – Hazard Identification

Hazard Classes:



Specific target organ toxicity–repeated exposure Category 2
 Hazardous to soil organisms
 Hazardous to terrestrial invertebrates

EPA NZ Approval Code: HSR002223
SIGNAL WORD WARNING

Section 3 – Composition Information

Chemical Entity	CAS No.	Content
Cyromazine	66215-27-8	500 g/L
Other excipient ingredients	Not Disclosed	<500 g/L

Note: Other ingredients in this formula are being held as a trade secret. For more ingredient information in the event of a medical emergency, contact the telephone number listed in Section 1.

Section 4 – First Aid Measures

If Swallowed: Call a POISON CENTRE or contact a doctor/physician if you feel unwell. Rinse Mouth.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before use.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

Advice to Doctor: Treat symptomatically.

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

Section 5 – Fire-fighting Measures

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)

Firefighting Instructions:	Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Evacuate area and fight fire from a safe distance.
Extinguishing Media:	Water spray, carbon dioxide, dry chemical or foam.
Flash Point:	Nonflammable
Hazardous Combustion Products:	Thermal decomposition may generate irritating or toxic vapors.

Section 6 – Accidental Release Measures

Spills and Disposal:	<p>MAJOR SPILLS Slippery when spilt. Minor hazard.</p> <ol style="list-style-type: none"> 1: Clear area of personnel. 2: Alert Fire Brigade and tell them location and nature of hazard. 3: Control personal contact by using protective equipment as required. 4: Prevent spillage from entering drains or waterways. 5: Contain spill with sand, earth or vermiculite. 6: Collect recoverable product into labelled containers for recycling. 7: Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. 8: Wash area and absorb further with inert material. Prevent runoff into drains or waterways. 9: If contamination of drains or waterways occurs, advise emergency services. <p>Minor Spills: Slippery when spilt.</p> <ol style="list-style-type: none"> 1: Clean up all spills immediately. 2: Avoid breathing vapours and contact with skin and eyes. 3: Control personal contact by using protective equipment. 4: Contain and absorb spill with sand, earth, inert material or vermiculite. 5: Place in a suitable labelled container for waste disposal.
Protective Equipment:	Wear neoprene gloves and boots, overalls and face/eye protection
Environmental Precautions:	Avoid entry into waterways or streams. Prevent washings from entering waterways.

Section 7– Handling and Storage

General Handling:	Use only in a well-ventilated area. Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling. When handling wear protective clothing and waterproof gloves.
Storage Conditions:	Store in original container, tightly closed. Do not store for prolonged periods in sunlight.
Temperature range for storage:	Below 30°C (room temperature)

Section 8 – Exposure Controls/Personal Protection

These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions.

Ventilation:	Engineering controls should be used as the primary means to control exposure. Good general ventilation should be sufficient to control airborne levels. Local and general ventilation should be used as necessary, when handling this material in bulk.
Respiratory Protection:	Respiratory protection is recommended as a precaution to minimize exposure when handling this material in bulk.
Eye Protection:	Safety glasses or goggles.
Skin Protection:	Use protective clothing (uniform, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Hand Protection:	Rubber gloves

Section 9 – Physical and Chemical Properties

Appearance:	Brown suspension liquid
Odour:	Specific odour
Specific Gravity:	1.14 – 1.167
pH:	7 - 9

Section 10 – Stability and Reactivity

Stability:	Stable at room temperature in closed containers under normal storage conditions.
Conditions to Avoid:	Light, exposure to air. excess heat, strong oxidants
Incompatibility Materials:	Not known

Section 11 – Toxicological Information

<u>Cyromazine:</u>	
Acute toxicity (oral):	LD50 Rabbit, 1467 mg/kg
Eye:	No known effect
Skin:	No known effect
Inhalation:	No known effect
Ingestion:	Harmful if swallowed
Mutagenicity:	No known effect
Carcinogenicity:	No known effect
Reproductive, Developmental & effects via lactation:	No known effect
Target organ toxicity (oral):	Affects the blood and the hematopoietic system. Cyromazine was administered to 56 beagle dogs (7/sex/group) at 0, 30, 300 and 3000 ppm for 6 months. Pronounced effects on the hematocrit and hemoglobin levels were noted at 300 and 3000 ppm. The systemic NOEL was established at 30 ppm (0.75 mg/kg/day)

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Section 12 - Ecological Information

Aquatic:	No known effect
Soil:	Harmful in the soil environment, Soil DT 50 > 30 days
Terrestrial Vertebrates:	Toxic to vertebrates, LD50 Rabbit, 1467 mg/kg
Terrestrial Invertebrates:	Toxic to invertebrates
Mobility, Persistence & Degradability:	Cyromazine has low to high mobility in soil

Section 13 – Disposal Considerations

Product Disposal:	Harmful to the soil environment and terrestrial invertebrates. Avoid release to the environment. Preferably dispose of product by use. Triple rinse into the dip vat. Fouled or unwanted sump solution should be placed in a soil pit, away from dams, ponds and waterways. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility.
Container Disposal:	Empty containers and product should not be burnt. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility.

Section 14 – Transport Information

Proper Shipping Name:	Environmentally Hazardous Substance, liquid, N.O.S. (Cyromazine)
UN Number:	3082
DG Class:	9
Subsidiary Risk Class:	None
Packing Group:	III
HAZCHEM Code:	N/A

Section 15 – Regulatory Information

ERMA NZ Registration Code:	HSR002223
NZFSA Approval Number:	See http://www.epa.govt.nz for approval conditions
	A012003
	See www.foodsafety.govt.nz for registration conditions

Section 16 – Other Information

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Inovata Ltd for more information.

EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre)

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