

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Cyrazin Spray On
Product code:	A7508
Recommended use:	A spray on formulation for the control of flystrike on sheep. Contains the insect growth regulator Cyromazine.
Company details:	Merial Ancare
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Merial Ancare Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
Date of preparation:	20 April 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Cyromazine	66215-27-8	60
Solvent: 1-methyl-2-pyrrolidinone	872-50-4	300
Other		to 1 L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.3A, 6.4A, 6.8A, 6.9B, 9.1D
Priority and secondary identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
Risk and safety phrases:	6.3B May cause skin irritation. Avoid skin contact. 6.4A May cause eye irritation. Avoid contact with the eyes. 6.8A The solvent (1-methyl-2-pyrrolidinone) may affect development and/or reproduction. Handle with care. 6.9B Cyromazine possibly may affect the blood and haematopoietic system. Handle with care. 9.1D Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container.

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. <u>Ingestion:</u> If swallowed seek medical attention. Do NOT induce vomiting. <u>Eyes:</u> If splashed in eyes wash out immediately with water. <u>Skin:</u> If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.
Workplace facilities:	<u>Inhalation:</u> Remove to fresh air. No special facilities required
Required instructions:	Observe good work practices and avoid skin contact. Wash hands and exposed skin before meals and after use. Do not eat or drink while using. Launder protective clothing separately from other

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Notes for medical personnel: clothing, and before each reuse.
Apply symptomatic therapy (no specific antidote).
Note: Cyromazine is not a cholinesterase inhibitor (is an insect growth regulator).

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard: Non flammable, Non combustible, Non explosive
Fire hazard properties: Cyrazin Spray On is not classified as flammable, and will not support combustion. Hazardous fumes when heated to decomposition
Regulatory requirements: Not applicable
Extinguishing media and methods: Treat the fire as for the other materials present. Do not allow water to enter drains.
Hazchem code: Not applicable
Recommended protective clothing: When fighting a major fire wear full protective clothing including breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear suitable protective clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Avoid contamination of water courses or sewers. Dispose of waste safely.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Apply with well-maintained and calibrated equipment. Handle with care.
Regulatory requirements: N/A
Handling practices: N/A
Approved handlers: Not required
Conditions for safe storage: Store in original container, tightly closed away from direct sunlight, in a cool, dry place. Keep out of reach of children.
Store site requirements: This substance is subject to a requirement for an emergency signage, whenever it is held in quantities of 10,000L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging: Packaging Schedule 3 (UN Packing Group III) for quantities >1L (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards: 1-methyl-2-pyrrolidinone, TWA 25 ppm, 103 mg/m³
STEL 75 ppm, 309 mg/m³
Dusts 10mg/m³
Application in the workplace: Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
Exposure standards outside the workplace: TELs and EELs are not set at this time.
Engineering controls: Ensure that ventilation maintains dust levels below WES.
Personal protection: Clothing should consist of overalls with long sleeves, boots and

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impervious gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Formulation type:</u> Suspension <u>Appearance:</u> Dark brown liquid <u>Specific gravity:</u> 1.08 g/mL <u>pH:</u> 7.0-8.0 <u>Boiling point:</u> > 100° C. <u>Vapour Pressure:</u> Solvent: 45 Pa at 25 °C <u>Solubility in Water:</u> [cyromazine] 1.1 %
Required specifications:	N/A
Further specifications:	N/A
Specific advice:	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable under normal conditions of use and storage.
Conditions to avoid:	No specific conditions to avoid.
Material to avoid:	No specific materials to avoid.
Hazardous decomposition products:	No hazardous products are expected, except when heated to decomposition.
Hazardous polymerization:	Components are not expected to form hazardous polymers.
Specific data:	N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	May cause skin irritation. May cause eye irritation. Danger of serious damage to health by prolonged exposure. Cyromazine possibly may affect the blood and haematopoietic system. The solvent (1-methyl-2-pyrrolidinone) may affect development and/or reproduction.
Summaries data:	<u>Cyromazine:</u> An acute toxin - 'slightly toxic' [LD ₅₀ (oral) 1467-4050mg/kg; LC ₅₀ (inhalation) >2.720mg/l air/4 hr; LD ₅₀ (dermal) >3100mg/kg]. In repeated oral dose animal studies, the most consistent effect was a reduction in body weight gain at high dose levels during the treatment period (largely reversible). Red blood cell counts and haemoglobin levels were reduced in some animals at high doses. Lowest NOAEL 0.75mg/kg/day. <u>1-Methyl-2-Pyrrolidinone:</u> Low acute toxicity [LD ₅₀ (oral, rabbit) 3500mg/kg; LD ₅₀ (dermal) >8000 mg/kg]. Irritant to skin and eyes. In reproductive studies in laboratory animals, repeated dose exposure from mating to weaning was associated with lower pup body weights, reduced fertility and fecundity, reduced litter sizes, reduced pup survival, resorptions and malformations (NOEL 50mg/kg/d).

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:	Harmful to aquatic organisms.
Data organisation :	<u>Cyromazine:</u> Insect growth regulator with contact action, which interferes with moulting and pupation of flies (interferes with the first dipteran larval moult and to a certain extent with metamorphosis). May be toxic to bees [adult honey bees (no action up to 5 µg/bee)] and soil organisms. Low toxicity for birds and mammals. A potential terrestrial vertebrate toxin based on toxicity data from laboratory animals [LD ₅₀ (oral, rabbit) 1467mg/kg]. Cyromazine is not expected to accumulate in soils, plants or tissues.

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Environmental risk and safety phrases: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information : Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Burn empty container in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill. Do NOT use container for any other purpose.

SECTION 14: TRANSPORT INFORMATION

Relevant information: Not classified as dangerous for rail, road, air or sea transport.
The maximum quantity per package of this substance allowed for carriage on public transport is 1L.

Other requirements: N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status: Registered pursuant to the ACVM Act 1997, No. A7508
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act, Approval Code HSR002218
See www.epa.govt.nz for approval conditions

HSNO and ACVM controls: SDS is required for quantities greater than or equal to 1L
Refer to Section 3

List exposure limits: N/A

SECTION 16: OTHER INFORMATION

Additional information: For product information visit the Merial website www.merial.co.nz
While the information set forth is believed to be accurate as of the date hereof, MERIAL NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.