

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>Cyrazin Liquid</b>
<b>Product code:</b>	A007509
<b>Recommended use:</b>	A dip for the prevention of flystrike on sheep. Contains the insect growth regulator Cyromazine.
<b>Company details:</b>	Boehringer Ingelheim Animal Health New Zealand Limited
<b>Address:</b>	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
<b>Telephone number:</b>	Phone: +64 9 980 1600 Fax: +64 9 980 1601
<b>Emergency telephone number:</b>	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
<b>Date of preparation:</b>	4 April 2006

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Liquid

**Product components:**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Cyromazine	66215-27-8	500
Other		to 1 L

## SECTION 3: HAZARDS IDENTIFICATION

<b>Hazard classifications:</b>	6.1E, 6.9B, 9.2C, 9.4C
<b>Priority and secondary identifiers:</b>	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
<b>Risk and safety phrases:</b>	6.1E May be harmful if swallowed. Handle with care. 6.9B Cyromazine possibly may affect the blood and haematopoietic system. Handle with care. 9.2C Harmful to the soil environment. Avoid release to the environment. 9.4C Harmful to terrestrial invertebrates. Avoid release to the environment.

## SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	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. <u>Inhalation:</u> Remove to fresh air.
<b>Workplace facilities:</b>	No special facilities required
<b>Required instructions:</b>	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 clothing, and before each reuse.
<b>Notes for medical personnel:</b>	Apply symptomatic therapy (no specific antidote).

# SAFETY DATA SHEET

Product Name: Cyrazin Liquid

Page 2 of 4  
Reviewed on: 2 February 2018

Note: Cyromazine is not a cholinesterase inhibitor (is an insect growth regulator).

## SECTION 5: FIRE FIGHTING MEASURES

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency procedures:</b>	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.
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## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Apply with well-maintained and calibrated equipment. Handle with care.
<b>Regulatory requirements:</b>	N/A
<b>Handling practices:</b>	N/A
<b>Approved handlers:</b>	Not required
<b>Conditions for safe storage:</b>	Store concentrated liquid in original container, tightly closed away from direct sunlight, in a cool, dry place. Keep out of reach of children.
<b>Store site requirements:</b>	This substance is subject to a requirement for an emergency signage, whenever it is held in quantities of 1000L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
<b>Packaging:</b>	Packaging Schedule 4 (Hazardous Substances Packaging Regulations 2001).

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	Dusts 10mg/m <sup>3</sup>
<b>Application in the workplace:</b>	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
<b>Exposure standards outside the workplace:</b>	TELS and EELs are not set at this time.
<b>Engineering controls:</b>	Ensure that ventilation maintains dust levels below WES.
<b>Personal protection:</b>	Clothing should consist of overalls with long sleeves, boots and impervious gloves.

# SAFETY DATA SHEET

Product Name: Cyrazin Liquid

Page 3 of 4  
Reviewed on: 2 February 2018

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Specify product data:</b>	<u>Formulation type:</u> Suspension <u>Appearance:</u> Dark brown liquid <u>Specific gravity:</u> 1.1-1.2 g/mL <u>pH:</u> 7.3-8.3 <u>Boiling point:</u> > 100° C. <u>Vapour Pressure:</u> NA <u>Solubility in Water:</u> [ cyromazine ] 1.1 %
<b>Required specifications:</b>	N/A
<b>Further specifications:</b>	N/A
<b>Specific advice:</b>	N/A

## SECTION 10: STABILITY AND REACTIVITY

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

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Data and interpretation:</b>	May be harmful if swallowed. Danger of serious damage to health by prolonged exposure if swallowed. Cyromazine possibly may affect the blood and haematopoietic system.
<b>Summaries data:</b>	<u>Cyromazine:</u> An acute toxin - 'slightly toxic' [LD <sub>50</sub> (oral) 1467-4050mg/kg; LC <sub>50</sub> (inhalation) >2.720mg/l air/4 hr; LD <sub>50</sub> (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.

## SECTION 12: ENVIRONMENTAL INFORMATION

<b>Potential environmental interactions:</b>	Harmful to the soil environment. Harmful to terrestrial invertebrates.
<b>Data organisation :</b>	<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 <sub>50</sub> (oral, rabbit) 1467mg/kg]. Cyromazine is not expected to accumulate in soils, plants or tissues.
<b>Environmental risk and safety phrases:</b>	N/A

# SAFETY DATA SHEET

Product Name: Cyrazin Liquid

Page 4 of 4  
Reviewed on: 2 February 2018

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Disposal information :</b>	Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Triple rinse container and add rinsate to dip wash. 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.
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## SECTION 14: TRANSPORT INFORMATION

<b>Relevant information:</b>	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 5L.
<b>Other requirements:</b>	N/A

## SECTION 15: REGULATORY INFORMATION

<b>Regulatory status:</b>	Registered pursuant to the ACVM Act 1997, No. A007509 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions
	Approved pursuant to the HSNO Act, Approval Code HSR002223 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions
<b>HSNO and ACVM controls:</b>	SDS is required for quantities greater than or equal to 1L Refer to Section 3
<b>List exposure limits:</b>	N/A

## SECTION 16: OTHER INFORMATION

<b>Additional information:</b>	For product information visit the Boehringer Ingelheim website <a href="http://www.boehringer-ingelheim.co.nz">www.boehringer-ingelheim.co.nz</a>  While the information set forth is believed to be accurate as of the date hereof, BOEHRINGER INGELHEIM makes no warranty with respect hereto and disclaims all liability from reliance thereon.
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