

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Cyroshield EP Liquid
Pack Size:	1L, 2.5L, 5L, 10L
ACVM Approval No:	A012033
Recommended use:	For the control and local treatment of flystrike on coarse wool sheep
Company name:	Alleva Animal Health Limited
Address:	1/116a Harris Road, East Tamaki, Auckland, 2013, New Zealand
Telephone:	0064-9-4181405
Emergency telephone number:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
Restrictions of Use	Refer to Section 15
Date of SDS Preparation	8 August 2023 (v1)

SECTION 2: HAZARDS IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Veterinary Medicines (Non-Dispersive Open System Application) – HSR100759

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Effects on or via lactation	H362	May cause harm to breast-fed children.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.



Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.
Hazardous to soil organisms	H423	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	H443	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

SECTION 3: COMPOSITION

Product form:	Liquid	
Product Components:		
Name	CAS	Proportion
Cyromazine	66215-27-8	45 - 55%
Ivermectin	70288-86-7	1 - 3%
Butylated hydroxytoluene	128-37-0	0.5 - 0.2%
Other ingredients	Proprietary	To 100%

SECTION 4: FIRST AID MEASURES

<p>Necessary first aid measures:</p>	<p>Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.</p> <p>Eye Contact: Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.</p> <p>Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Inhaled: Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult or if you feel unwell.</p>
<p>Most important symptoms and effects, both acute and delayed</p>	<p>Symptoms: Harmful if swallowed. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure.</p>

SECTION 5: FIRE FIGHTING MEASURES

<p>Type of hazard:</p>	<p>Non-flammable, combustible, non-explosive</p>
<p>Fire hazard properties:</p>	<p>None known.</p>
<p>Extinguishing media and methods:</p>	<p>Use media suitable for surrounding materials.</p>
<p>Hazchem code:</p>	<p>3Z</p>
<p>Recommended protective clothing:</p>	<p>Fire fighters should wear self-contained breathing apparatus in enclosed areas. Do not allow water to enter drains.</p>

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment as detailed in Section 8 to minimise exposure. Restrict access to contaminated area.
Environmental Precautions:	Contain the spill and prevent further dispersion. Prevent contamination of water courses and sewers.
Procedure for Spills:	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.
Procedure for Disposal:	Contaminated material must be disposed of at an approved landfill or other approved facility in accordance with local, regional and national requirements. Avoid contamination of any water supply with product or empty container.

SECTION 7: HANDLING AND STORAGE


Precautions for safe handling:	<ul style="list-style-type: none"> • Read carefully and follow all instructions. • Obtain special instructions before use. • Do not breathe fumes, mist, vapours or spray. • Avoid contact during pregnancy and while nursing. • Wash hands thoroughly after handling. • Do not eat, drink or smoke when using this product. • Avoid release to the environment.
Conditions for safe storage:	<ul style="list-style-type: none"> • Keep out of reach of children. • Store away from incompatible materials listed in Section 10.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Butylated hydroxytoluene [128-37-0]	-	10	-	-
Propane-1,2-diol [57-55-6]	150	474	-	-
Glycerin (mist) [56-81-5]	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering controls:	Use in well ventilated area
Personal protection: 	Respiratory protection: Not required. Hand protection: Wear appropriate clothing and gloves. Eye protection: Wear goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Suspension
Odour	Not available
Odour Threshold	Not available
pH	~9.0
Boiling Point	Not available
Melting /Freezing Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	~1.15 g/mL
Solubility in water	Active ingredient – Cyromazine 1.1 mg/ml
Partition Coefficient:	Not available



Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable under normal conditions of storage and use
Conditions to avoid:	None known.
Material to avoid:	None known.
Hazardous decomposition products:	No hazardous products are expected, except when heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Swallowed	Harmful if swallowed.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.
Reproductive Systemic	May cause harm to breast-fed children.
Carcinogenicity	Not applicable.
Aspiration	Not applicable.
Germ Cell Mutagenicity	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Cyromazine	2000 mg/kg	-	-
Ivermectin	11.6 mg/kg (mouse)	406 mg/kg (rabbit)	-

SECTION 12: ENVIRONMENTAL INFORMATION

Very toxic to aquatic life.
Harmful to aquatic life with long lasting effects.
Hazardous to soil organisms.



Hazardous to terrestrial vertebrates.
Hazardous to terrestrial invertebrates.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways or sewerage.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal:	Preferably dispose of product by use in accordance with label directions. Otherwise dispose of product at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with product.
Container disposal:	Dispose of empty containers by wrapping in paper and putting in garbage for disposal at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with empty container.

SECTION 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Ivermectin)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and



	the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.
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SECTION 15: REGULATORY INFORMATION

Regulatory status:	Veterinary Medicines (Non-Dispersive Open System Application) – HSR100759
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HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L
Emergency Response Plan (Schedule 5)	100L
Secondary Containment (Schedule 5)	100L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	A012033

SECTION 16: OTHER INFORMATION

Glossary

CAT Category

EC50 Median effective concentration.

EEL Environmental Exposure Limit.

EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level

WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 13th edition.



3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. ALLEVA Animal Health Limited makes no warranty with respect hereto and disclaims all liability from reliance thereon.

Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.

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