



# SAFETY DATA SHEET

Product Name: REFLEX® Pour-On

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	REFLEX ® Pour-On for Cattle
ACVM approval code:	A10666
Recommended use:	For the treatment and control of internal parasites, including, lungworm and lice in cattle.
Company name:	Alleva Animal Health Limited
Address:	15 Calman Place, Birkenhead, Auckland
Telephone:	0064-9-4181405
Emergency telephone number:	National Poisons Centre: 0800 764 766 (0800 POISON)  Fire Service, Ambulance: Dial 111

## SECTION 2: HAZARDS IDENTIFICATION

The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval Code: - HSR100682

### Pictograms



Irritant/Toxic



Chronic



Ecotoxic

Signal Word: **WARNING**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.1D	H302	Harmful if swallowed.	Category 4
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Category 2



6.8C	H362	May cause harm to breast-fed children.	-
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	Category 2
9.1A	H400	Very toxic to aquatic life.	Category 1
9.2C	H423	Harmful to the soil environment.	-

**Prevention Code      Prevention Statement**

P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, vapours or spray.
P263	Avoid contact during pregnancy/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.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

**Response code      Response Statement**

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

**Storage Code      Storage Statement**

P405	Store locked up.
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**Disposal Code      Disposal Statement**

P501	Dispose of according to Local Regulations or Authorities
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### SECTION 3: COMPOSITION

<b>Product form:</b>	Liquid	
<b>Product Components:</b>		
<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
Abamectin	71751-41-2	1% w/v
2-(2-butoxyethoxy)ethanol	112-34-5	>80% w/v

### SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	<p><b>General Information:</b> Remove victim from contaminated area. If there is a risk of unconsciousness, position and transport in a stable lateral position. Take container/label or MSDS for identification.</p> <p><b>Skin Contact:</b> Immediately remove all contaminated clothing, including footwear. Wash with water for 15 minutes. Seek medical attention if irritation persists.</p> <p><b>Eye Contact:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p> <p><b>Ingestion:</b> Rinse mouth with water. Seek immediate medical assistance. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.</p> <p><b>Inhalation:</b> Remove patient to fresh air, avoid breathing vapours yourself. If not breathing apply resuscitation. Seek medical assistance.</p>
<b>Workplace facilities:</b>	No special facilities required.
<b>Required instructions:</b>	Observe good work practices and avoid skin and eye 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>	There is no specific antidote. Apply symptomatic therapy.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	Non flammable, combustible, non explosive
<b>Fire hazard properties:</b>	Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
<b>Regulatory requirements:</b>	Not applicable
<b>Extinguishing media and methods:</b>	Sprayed water jet, foam, dry chemical powder CO2 and sand. Do not allow water to enter drains.
<b>Hazchem code:</b>	2X
<b>Recommended protective clothing:</b>	Fire fighters should wear self contained breathing apparatus in enclosed areas. Fight fire in the early stages if it is safe to do so.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Wear suitable protective clothing. Restrict access to contaminated area.
<b>Environmental Precautions:</b>	Contain the spill and prevent further dispersion. Prevent contamination of water courses and sewers.
<b>Procedure for Spills:</b>	Retrieve intact containers from the site. Place damaged containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb further inert material. Collect spilled material and place in sealable containers for subsequent disposal.
<b>Procedure for Disposal:</b>	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.
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## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	<ul style="list-style-type: none"> <li>• Handle with care.</li> <li>• Read label before use.</li> <li>• Do not handle until all safety precautions have been read and fully understood.</li> <li>• Do not breathe fumes, vapours or spray.</li> <li>• Avoid contact during pregnancy/while nursing.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> <li>• Avoid release to the environment.</li> <li>• Wear protective clothing.</li> <li>• Apply with well-maintained and calibrated equipment.</li> <li>• Keep container tightly closed.</li> </ul>
<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 in a cool and dry environment. Keep out of reach of children. Keep locked away so that unauthorised persons do not have access. Keep away from food, drink and animal feeding stuffs. Store away from sources of ignition.
<b>Store site requirements:</b>	This substance is subject to a requirement for a Level 3 emergency management plan, secondary containment and signage, whenever it is held in quantities of 100L or more. See Hazardous Substances (Emergency



	management) regulations 25 to 42.
<b>Packaging:</b>	Packaging as per schedule 3 (Hazardous Substances Packaging Regulations) for quantities > 5L. UN Packaging Group III.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Engineering controls:</b>	Use in well ventilated area
<b>Personal protection:</b>	<p><b>Respiratory protection:</b> Not required.</p> <p><b>Hand protection:</b> Protective gloves for chemical use including nitriles.</p> <p><b>Eye protection:</b> Safety chemical goggles should be worn.</p> <p><b>Hygiene procedures:</b> Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing. Wash hand before breaks and at the end of work. Remove contaminated protective clothing. Keep away from food stuffs, drinks and tobacco.</p>

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Specific product data:</b>	Appearance: clear colourless to pale yellow solution
	Odour: mild odour
	Specific Gravity / Density: 0.94 – 0.98g/mL at 20°C
	Freezing / Melting Point: Freezing point = -68°C
	Boiling Point: >200° C
	pH: n/a
	Solubility in Water: not available
	Flashpoint: >93°C



	Oxidising Properties: n/a
	Corrosive Properties: n/a
	Vapour Pressure: n/a
<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 storage and use
<b>Conditions to avoid:</b>	No specific conditions to avoid
<b>Material to avoid:</b>	Store only in the container supplied. Use the recommended delivery equipment.
<b>Hazardous decomposition products:</b>	None if stored and handled correctly

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute effects:</b>	<p>Abamectin</p> <p>LD50 (Oral-rats) = 10mg/kg LD50 (Dermal-rats) = 330mg/kg</p> <p><b>Eyes:</b> Causes serious eye irritation. <b>Skin:</b> Causes mild skin irritation.</p>
<b>Chronic and long-term effects:</b>	<p><b>Reproductive/Development Effects:</b></p> <p>Rats given 0.40 mg/kg/day of abamectin had increased stillbirths, decreased pup viability, decreased lactation, and decreased pup weights. These data suggest that abamectin may have the potential to cause reproductive effects at high enough doses. (Source: EXTOKNET)</p> <p>Abamectin produced cleft palate in the offspring of treated mice and rabbits,</p>



	<p>but only at doses that were also toxic to the mothers. There were no birth defects in the offspring of rats given up to 1 mg/kg/day. Abamectin is unlikely to cause teratogenic effects except at doses toxic to the mother. (Source: EXTOWNET)</p> <p><b>Target Organ Effects:</b> In a 1-year study with dogs given oral doses of abamectin, dogs at the 0.5 and 1 mg/kg/day doses exhibited pupil dilation, weight loss, lethargy, tremors, and recumbency. Similar results were seen in a 2-year study with rats fed 0.75, 1.5, or 2 mg/kg/day. Rats at all the dosage levels exhibited body weight gains significantly higher than the controls. A few individuals in the high dose group exhibited tremors. (Source: EXTOWNET)</p> <table> <tr> <td><b>Reproductive</b></td><td>Suspected of damaging fertility or the unborn child.</td></tr> <tr> <td><b>Systematic</b></td><td>May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure.</td></tr> </table>	<b>Reproductive</b>	Suspected of damaging fertility or the unborn child.	<b>Systematic</b>	May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure.
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## SECTION 12: ENVIRONMENTAL INFORMATION

<b>Ecotoxicity effects:</b>	<p>Abamectin is highly toxic to fish and extremely toxic to aquatic invertebrates. Very toxic to terrestrial invertebrates</p> <p>LC50 (96-hour) is 0.003 mg/L in rainbow trout, 0.0096 mg/L in bluegill sunfish, 0.015 mg/L in sheepshead minnows, 0.024 mg/L in channel catfish, and 0.042 mg/L in carp. The 48-hour LC50 in <i>Daphnia magna</i> (a small freshwater crustacean) is 0.003</p>
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	mg/L.
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HSNO Classes: 9.1A = Very toxic to aquatic life.  
9.2C = Harmful to the soil environment.

Do not allow to enter waterways.

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Product disposal:</b>	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.
<b>Container disposal:</b>	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 5433:2012

<b>UN No.:</b>	3082
<b>Class:</b>	9
<b>Packing Group:</b>	III
<b>Hazchem Code:</b>	2X
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Abamectin)
The maximum quantity per package of this substance allowed for carriage on public transport is 1L	



## SECTION 15: REGULATORY INFORMATION

### Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A10666

See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions.

Approved pursuant to the HSNO Act, Approval Code HSR100682

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

SDS is required for quantities greater than or equal to 0.1L

### HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required as per controls
Location Certificate	Not applicable
Tracking Trigger Quantities	Not required as per controls
Signage Trigger Quantities	100L(9.1A)
Emergency Response Plan trigger Quantities	100L(9.1A)

## SECTION 16: OTHER INFORMATION

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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