



SAFETY DATA SHEET

Product Name: BOSS® Pour On

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	BOSS ® Pour-On for Cattle
ACVM approval code:	A010817
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: - HSR100643

Pictograms



Toxic / Irritant



Chronic



Ecotoxic

Signal Word: DANGER

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
6.5B	H317	May cause an allergic skin reaction.	Category 1



6.6B	H341	Suspected of causing genetic defects ...	Category 2
6.8B	H361	Suspected of damaging fertility or the unborn child ...	Category 2
6.9A	H372	Causes damage to organs through prolonged or repeated exposure ...	Category 1
9.1A	H400	Very toxic to aquatic life.	Category 1
9.2C	H423	Harmful to the soil environment.	
9.3B	H432	Toxic to terrestrial vertebrates.	
9.4A	H441	Very toxic to terrestrial invertebrates.	

Prevention Code Prevention Statement

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection*.
P281	Use personal protective equipment as required.

Response Code Response Statement

P310	Immediately call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash 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

Product form:	Liquid	
Product Components:		
Name	CAS	Proportion
Abamectin	71751-41-2	1% w/w
Levamisole Base	14769-73-4	20% w/w
Butylated hydroxytoluene	128-37-0	<0.1 w/w
2-(2-butoxyethoxy)ethanol	112-34-5	>20% w/w

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:

General Information: 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.

Skin Contact: Immediately remove all contaminated clothing, including footwear. Wash with water for 15 minutes. Seek medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.

Ingestion: Rinse mouth with water. Seek immediate medical assistance. DO NOT induce vomiting. Never give anything by mouth to an unconscious Person.

Inhalation: Remove patient to fresh air, avoid breathing vapours yourself.



	If not breathing apply resuscitation. Seek medical assistance.
Workplace facilities:	No special facilities required.
Required instructions:	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.
Notes for medical personnel:	There is no specific antidote. Apply symptomatic therapy.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non-flammable, combustible, non-explosive
Fire hazard properties:	Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Regulatory requirements:	Not applicable
Extinguishing media and methods:	Sprayed water jet, foam, dry chemical powder CO2 and sand. Do not allow water to enter drains.
Hazchem code:	2X
Recommended protective clothing:	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

Personal Precautions:	Wear suitable protective clothing. Restrict access to contaminated area.
Environmental Precautions:	Contain the spill and prevent further dispersion. Prevent contamination of water courses and sewers.
Procedure for Spills:	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.
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"> • Apply with well-maintained and calibrated equipment. • Handle with care. • Do not handle until all safety precautions have been read and fully understood. • Keep container tightly closed. • Do not breathe fume, mist, vapours or spray. • Avoid contact during pregnancy/while nursing. • Wash hands thoroughly after handling. • Do not eat, drink or smoke when using this product. • Contaminated work clothing should not be allowed out of the workplace. • Avoid release to the environment. • Wear protective gloves/protective clothing/eye protection/face protection. • Use personal protective equipment as required.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required
Conditions for safe storage:	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.
Store site requirements:	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.
Packaging:	Packaging as per schedule 3 (Hazardous Substances Packaging Regulations) for quantities > 5L. UN Packaging Group III.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance mg/m ³	TWA		STEL
	ppm	mg/m ³	ppm
Butylated hydroxytoluene [128-37-0]	-	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.

Engineering controls:	Use in a well-ventilated area
Personal protection:	<p>Respiratory protection: Not required.</p> <p>Hand protection: Protective gloves for chemical use including nitriles.</p> <p>Eye protection: Avoid contact with eyes. Do not spray near eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Avoid wearing contact lenses.</p> <p>Hygiene procedures: Keep the place of work clean. Avoid contact with</p>



	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.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific product data:	Appearance: clear pale yellow to yellow solution
	Odour: mild odour
	Specific Gravity / Density: 1.05 – 1.15g/mL at 20°C
	Boiling Point: n/a
	pH: n/a
	Solubility in Water: not available
	Flashpoint: >93°C
	Oxidising Properties: n/a
	Corrosive Properties: n/a
	Vapour Pressure: n/a
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 storage and use
Conditions to avoid:	No specific conditions to avoid
Material to avoid:	Store only in the container supplied. Use the recommended delivery equipment.
Hazardous decomposition products:	None if stored and handled correctly



SECTION 11: TOXICOLOGICAL INFORMATION

<p>Acute effects:</p>	<p><u>Abamectin</u> LD50 (Oral-rats) = 10mg/kg LD50 (Dermal-rats) = 330mg/kg <u>Levamisole</u> LD50 Oral Mouse 205-285mg/kg LD50 Oral Rat 458-1095mg/kg LD50 Oral Rabbit 458mg/kg</p>
<p>Eye Skin</p>	<p>Causes serious eye irritation. Causes mild skin irritation. May cause an allergic skin reaction</p>
<p>Chronic and long-term effects:</p>	<p>Reproductive/Development Effects: 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: EXTOWNET)</p> <p>Target Organ Effects: 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>
<p>Reproductive Systemic</p>	<p>Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.</p>



SECTION 12: ENVIRONMENTAL INFORMATION

Ecotoxicity effects:

Abamectin is highly toxic to fish and extremely toxic to aquatic invertebrates. Very toxic to terrestrial invertebrates.

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 *Daphnia magna* (a small freshwater crustacean) is 0.003 mg/L.

Levamisole is potentially toxic to terrestrial vertebrates.

HSNO Classes: 9.1A = Very toxic to aquatic life.
 9.2C = Harmful to the soil environment.
 9.3B = Toxic to terrestrial vertebrates.
 9.4A = Very toxic to terrestrial invertebrates.

Do not allow to enter waterways.

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.
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SECTION 14: TRANSPORT INFORMATION

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

This product is classified as a Dangerous Good for transport in NZ: NZS 5433:2012

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A010817 See www.nzfsa.govt.nz/acvm for registration conditions. Approved pursuant to the HSNO Act, Approval Code HSR100759 See www.epa.govt.nz for approval conditions. SDS is required for quantities greater than or equal to 0.1L
List exposure limits:	N/A
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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