

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	EXODUS Pour On
Product code:	A010222
Recommended use:	Internal and external parasites in cattle and internal parasites in deer
Company details:	Boehringer Ingelheim Animal Health New Zealand Limited
Address:	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
Date of preparation:	31 January 2009

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS
Chemical characterization:
Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Moxidectin	113507-06-5	5
Benzyl alcohol	100-51-6	150.0
Other		to 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1E, 6.4A, 6.5B, 6.8B, 6.8C, 9.1A, 9.2C, 9.4B
Priority and secondary identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
Risk and safety phrases:	May be harmful if swallowed. Wash hands and exposed skin before meals and after use. May cause eye irritation. Avoid eye contact. Repeated exposure may cause skin allergy. Avoid skin contact. Moxidectin may possibly affect development and/or reproduction. Handle with care. Moxidectin may possibly have effects on or via lactation. Handle with care. Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment. Avoid release to the environment. Toxic to terrestrial invertebrates. Avoid release to the environment.

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	For advice contact the National Poisons Centre 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.
Workplace facilities:	No special facilities required.
Required instructions:	Hygiene Practices: 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:	Apply symptomatic therapy (no specific antidote). Note the nature of the product (possible irritant, reproductive/developmental toxin and sensitiser).

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non flammable, Non combustible, Non explosive
Fire hazard properties:	The product is not classified as flammable, and will not support combustion. Hazardous fumes when heated to decomposition.
Regulatory requirements:	N/A
Extinguishing media and methods:	Treat the fire as for the other materials present. Do not allow water to enter drains.
Hazchem code:	2X
Recommended protective clothing:	When fighting a major fire wear full protective clothing including breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Wear suitable eye and skin 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

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 below 30oC. Protect from light. Keep out of reach of children.
Store site requirements:	This substance is subject to a requirement for an emergency management plan, containment and signage, whenever it is held in quantities of 100L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging:	Packaging Schedule 3 (UN Packing Group III) for quantities >5L

(Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	Dusts 10mg/m ³
Application in the workplace:	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin and eye 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, and impervious gloves. Wear protective goggles.
References:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	Formulation type	Solution
	Appearance	Yellowish liquid
	Specific gravity	Below 1g/mL
	pH	N/A
	Vapour Pressure	N/A
	Solubility in Water	Active not soluble in water
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:	<p>May be harmful if swallowed. May cause eye irritation. Repeated exposure may cause skin allergy. Moxidectin may possibly affect development and/or reproduction. Moxidectin may possibly have effects on or via lactation.</p> <p><u>Ingredients</u></p> <p>Moxidectin: is an acute oral toxin [LD50 (oral, mouse) 42mg/kg]. It can cause mild and transitory skin and eye irritation. Human health effects are considered unlikely if the product is used according to label, high dose exposure may cause central nervous system effects. Clinical signs in repeated high dose laboratory animal studies included lacrimation, salivation, slight ataxia, tremor, languid appearance (NOAEL 0.3mg/kg bw/d). The critical adverse effects in multigenerational high dose reproductive studies were mortality and reduced weight gain of pups in early lactation.</p> <p>Benzenemethanol: An organic alcohol that is used as a preservative [LD50 (oral, rat) 1040mg/kg; LD50 (dermal, rabbit) 2000mg/kg]. It is a known skin sensitiser (contact dermatitis) and a moderate eye irritant.</p>
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Summaries data: N/A
Effects of Acute Exposure:

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions: Very toxic to aquatic organisms. Harmful to the soil environment. Toxic to terrestrial invertebrates.

Data organisation : N/A

Environmental risk and safety phrases: **Moxidectin:** Is an effective insecticide and acaricide. It acts on the gamma-aminobutyric acid as an inhibitory neurotransmitter, causing paralysis of the parasite. It is highly toxic to invertebrates in the aquatic, soil and terrestrial environments. Aquatic organisms: Moxidectin is highly toxic to fish and extremely toxic to aquatic invertebrates [LC50 Rainbow trout is 0.16ppb (96hrs); EC50 Daphnia magna 30ppt (48hrs)]. Possibly bioaccumulative. Soil organisms: Dung beetle. Moxidectin is toxic to mammals [LD50 (oral, mouse) 42mg/kg], highly toxic to bees [LD50 (oral) 0.46ug/bee; LD50 (contact) 0.025ug/bee].

Benzenemethanol: An organic alcohol that is used as a preservative. Benzenemethanol is toxic to aquatic and soil organisms [LC50 Lepomis macrochirus 10mg/mL (96hrs); EC50 Daphnia magna 55mg/L (24hrs); EC50 microbial 50mg/L] and is a potential terrestrial vertebrate toxin based on laboratory animal toxicity data [LD50 (oral, rabbit) 1050mg/kg].

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. Avoid contamination of any water source. 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: Dangerous Goods for transport.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Moxidectin 0.5%)
UN Number: 3082
Dangerous Goods Class: 9

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. A010222
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act, HSR007788
See www.epa.govt.nz for approval conditions

HSNO and ACVM controls: Approved pursuant to the HSNO Act

List exposure limits: SDS is required for quantities greater than or equal to 1L

SECTION 16: OTHER INFORMATION

Additional information:

For product information visit the Boehringer Ingelheim website
www.boehringer-ingelheim.co.nz

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.