



# SAFETY DATA SHEET

Product Name: EXODUS Long Acting Injection

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Reviewed on: 12 May 2010

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

**Product name:** EXODUS Long Acting Injection  
**Product code:** A10399  
**Recommended use:** For the control & treatment of internal parasites, nasal bot and itchmite in sheep.  
**Company details:** Merial Ancare  
**Address:** Level 3, Merial Building  
Osterley Way  
Manukau City  
New Zealand  
**Telephone number:** Phone: +64 9 980 1600 Fax: +64 9 980 1601  
**Emergency telephone number:** Merial Ancare Freephone: 0800 800 822  
National Poisons Centre : 0800 764 766 (0800 POISON)  
Fire Service, Ambulance : Dial 111  
**Date of preparation:** December 2009

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Liquid  
**Product components:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Proportion g/L</u>
Moxidectin	113507-06-5	20
Benzyl alcohol	100-51-6	70.0
Other excipients deemed non hazardous		to 1L

## SECTION 3: HAZARDS IDENTIFICATION

**Hazard classifications:** 6.1D Acute oral toxin  
6.5B Contact sensitiser  
6.8B Reproductive/developmental toxin  
6.8C Reproductive/developmental toxin via lactation  
6.9B Target organ toxin  
9.1A Aquatic toxin  
9.2B Soil toxin  
9.3C Vertebrate toxin  
9.4B Invertebrate toxin

**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. Repeated exposure may cause skin allergy. Avoid skin contact.

Moxidectin may possibly affect development and/or reproduction and may possibly have effects on or via lactation. Moxidectin may possibly cause effects on the nervous system. Handle with care. Accidental selfinjection may cause neurotoxic, inflammatory or allergic response.

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Toxic to the soil environment. Harmful to terrestrial vertebrates. Toxic to terrestrial invertebrates. Avoid release to the environment.

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## 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). Note the nature of the product (possible irritant, reproductive/developmental toxin and sensitiser).

## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	Non flammable, Non combustible, Non explosive
<b>Fire hazard properties:</b>	The products 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>	2X
<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 below 30oC. Protect from light. Keep out of reach of children.
<b>Store site requirements:</b>	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.

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<b>Packaging:</b>	Packaging Schedule 3 (UN Packing Group III) for quantities >1L (Hazardous Substances Packaging Regulations 2001 & variations).
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## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	Dusts 10mg/m <sup>3</sup> ; and as specified for particular ingredients:
<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 and impervious gloves. Wear protective goggles.
<b>References:</b>	N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Specify product data:</b>	<u>Formulation type:</u> Solution <u>Appearance:</u> Yellowish liquid <u>Specific gravity:</u> Below 1g / mL <u>pH:</u> NA <u>Vapour Pressure:</u> NA <u>Solubility in Water:</u> Active not soluble in water
<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. Repeated exposure may cause skin allergy. Moxidectin may possibly affect development and/or reproduction. Moxidectin may possibly have effects on or via lactation. Moxidectin may possibly cause effects on the nervous system. Handle with care. Accidental self-injection may cause neurotoxic, inflammatory or allergic response.
<b>Summaries data:</b>	<u>Moxidectin</u> 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.

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## 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.

## SECTION 12: ENVIRONMENTAL INFORMATION

### Potential environmental interactions:

Very toxic to aquatic organisms. Toxic to the soil environment. Harmful to terrestrial vertebrates. Toxic to terrestrial invertebrates.

### Data organisation :

#### Moxidectin

Moxidectin is an effective insecticide and acaricide. It acts on the gammaaminobutyric 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].

### Environmental risk and safety phrases:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2%)

## SECTION 13: DISPOSAL CONSIDERATIONS

### Disposal information :

Preferably dispose of the product by use. Otherwise dispose of product and packaging (crush or puncture empty container) at an approved landfill or other approved facility. Avoid contamination of any water source. Do NOT use container for any other purpose. Dispose of needles by placing them in a sharps container.

## SECTION 14: TRANSPORT INFORMATION

### Relevant information:

Dangerous Goods for transport.  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2%)  
UN Number: 3082  
Dangerous Goods Class: 9

### Other requirements:

The maximum quantity per package of this substance allowed for carriage on public transport is 1L.

N/A

## SECTION 15: REGULATORY INFORMATION

### Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A10399  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions

Approved pursuant to the HSNO Act,  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for approval conditions

SDS is required for quantities greater than or equal to 1L

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**HSNO and ACVM controls:**

**List exposure limits:**

## SECTION 16: OTHER INFORMATION

**Additional information:**

For product information visit the Merial Ancare website  
[www.merialancare.co.nz](http://www.merialancare.co.nz)

While the information set forth is believed to be accurate as of the date hereof, Merial NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.