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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

Level 3, Merial Building Address:

> Osterley Way Manukau City New Zealand

Telephone number: Phone: +64 9 980 1600 Fax: +64 9 980 1601

Emergency telephone Merial Ancare Freephone: 0800 800 822

National Poisons Centre: 0800 764 766 (0800 POISON) number:

Fire Service, Ambulance: Dial 111

December 2009 Date of preparation:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Liquid

Product components:

Chemical Name CAS No. Proportion q/L

Moxidectin 113507-06-5 20 Benzyl alcohol 100-51-6 70.0

Other excipients deemed non hazardous to 1L

SECTION 3: HAZARDS IDENTIFICATION

6.1D Acute oral toxin Hazard classifications:

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

For advice contact the National Poisons Centre on 0800 POISON Necessary first aid

(0800 764 766), or a doctor immediately. measures:

Ingestion: If swallowed seek medical attention. Do NOT induce

vomiting.

Eyes: If splashed in eyes wash out immediately with water.

Skin: If skin or hair contact occurs remove contaminated clothing

and flush skin and hair with running water.

Inhalation: Remove to fresh air.

Workplace facilities: No special facilities required.

Required instructions: 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.

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 products is not classified as flammable, and will not support

combustion. Hazardous fumes when heated to decomposition.

Regulatory requirements: Not applicable

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 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.

SECTION 7: HANDLING AND STORAGE

Precautions for safe Apply with well-maintained and calibrated equipment. Handle with

handling: care. N/A Regulatory requirements:

Handling practices: N/A

Approved handlers: Not required Conditions for safe storage: Store below 30oC. Protect from light. Keep out of reach

This substance is subject to a requirement for an Store site requirements:

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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Packaging Schedule 3 (UN Packing Group III) for quantities >1L Packaging:

(Hazardous Substances Packaging Regulations 2001 & variations).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure

standards:

Dusts 10mg/m³; and as specified for particular ingredients⁻

Prevent exposure by using engineering controls, personal protective

equipment and work practices that prevent skin contact.

Exposure standards outside

Application in the workplace:

the workplace:

TELs and EELs are not set at this time.

Ensure that ventilation maintains dust levels below WES. **Engineering controls:**

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

Formulation type: Solution Specify product data:

Appearance: Yellowish liquid Specific gravity: Below 1g / mL

pH: NA

Vapour Pressure: NA

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

May be harmful if swallowed. Repeated exposure may cause skin Data and interpretation:

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.

Summaries data:

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:

<u>Moxidectin</u>

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

The maximum quantity per package of this substance allowed for

carriage on public transport is 1L.

Other requirements: N/A

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SECTION 15: REGULATORY INFORMATION

Registered pursuant to the ACVM Act 1997, No. A10399 Regulatory status:

See <u>www.foodsafety.govt.nz</u> for registration conditions

Approved pursuant to the HSNO Act, HSR001958 See www.epa.govt.nz for approval conditions

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

HSNO and ACVM controls:

List exposure limits:

SECTION 16: OTHER INFORMATION

Additional information: product information visit the Merial Ancare website

www.merial.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.