

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Genesis Ultra Oral
Product code:	A009150
Recommended use:	Oral drench for the control and treatment of internal parasites in sheep, including liver fluke and persistent activity of 42 days against <i>Haemonchus contortus</i>
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:	23 August 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Yellow to Orange Liquid

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Abamectin	71751-41-2	1g/L
Closantel (as sodium salt)	61438-64-0	50g/L
Other		To 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1E, 6.8B, 6.8C, 6.9B, 9.1A, 9.2C, 9.4A
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. Handle with care. Abamectin and Closantel possibly may affect development and/or reproduction. Handle with care. Abamectin possibly may have effects on or via lactation. Handle with care. Closantel possibly may affect the liver. 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. Very toxic to terrestrial invertebrates. Avoid release to the environment.

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SECTION 4: FIRST AID MEASURES

Necessary first aid measures:

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.
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 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.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:

Non flammable, Non combustible, Non explosive

Fire hazard properties:

Genesis Ultra Oral 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. Prevent contamination of water courses or sewers. Dispose of waste safely

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 25°C in a cool place with top secure, away from direct sunlight. Keep out of reach of children.

Store site requirements:

This substance is subject to a requirement for an 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 Schedule 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	150 ppm (PG)
Application in the workplace:	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin 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.
References:	N/A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Yellow to orange liquid <u>Specific gravity:</u> ~ 1.0 – 1.1 g/ml <u>pH:</u> ~ 7 – 8 <u>Boiling point:</u> ~100°C <u>Solubility in Water:</u> Abamectin is insoluble 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:	May be harmful if swallowed. May affect development and/or reproduction. May have effects on or via lactation. May possibly affect the liver
Summaries data:	<u>Abamectin:</u> Abamectin is an acute oral toxin [LD ₅₀ (oral) 8.7-12.8mg/kg]. Ingestion of a single large dose of abamectin by humans (~100mg/kg) was associated with coma, hypotension and respiratory failure. Clinical signs in repeated-dose laboratory animal studies included ataxia, tremor, mydriasis, emesis, pupil dilation and coma. High doses produced respiratory failure and deaths. The critical adverse effects in multigenerational reproductive studies were mortality and reduced weight gain of pups in early lactation (NOAEL 0.12mg/kg/d). <u>Closantel Sodium:</u> Closantel is an acute oral toxin [LD ₅₀ (oral, rat) 262mg/kg]. In repeated dose laboratory animal studies spermatoc granulosas and hepatic fatty were observed (NOEL was 2.5mg/kg/day). Reduced pregnancy rates recorded in reproductive studies (rats) at doses of 40mg/kg/day and above were attributed to toxicity of the male reproductive organs. Male gonads, and secondarily the liver, appear as target organs for toxicity. Limited human clinical reports are available from 33 patients who were

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treated with a single oral or parenteral dose of closantel at 2.5 to 10 mg/kg per kg and there were no adverse effects.
No further available data

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:

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

Data organisation :

Abamectin:

Abamectin is a highly effective insecticide and acaricide produced by the soil microbe *Streptomyces avermitilis*. It acts by stimulating the release of gamma-aminobutyric acid, an inhibitory neurotransmitter, causing paralysis of the parasite. It is highly toxic to invertebrates in the aquatic, soil and terrestrial environments.

Aquatic organisms: Abamectin is highly toxic to fish and extremely toxic to aquatic invertebrates [LC₅₀ Rainbow trout is 3.6 ppb (96hrs); EC₅₀ *Daphnia magna* 0.34 ppb (48hrs)]. Persist: yes. Soil organisms: Dung beetle Terrestrial fate value 20-40. Abamectin is toxic to mammals [LD₅₀ (oral, rats) 8.7 mg/kg], but is less toxic to birds [LC₅₀ Bobwhite quail >2000 mg/kg]. Abamectin is highly toxic to bees [LD₅₀ (oral) 0.0094 µg/bee; LD₅₀ (contact) 0.002 µg/bee].

Closantel: Closantel is a broad spectrum antiparasitic (trematodes, nematodes, arthropods - especially those species which feed on blood or plasma). The antitrepatode activity of closantel is mainly used against liver fluke. Closantel is an aquatic toxin [LC₅₀ (Common eel, 24h) 2.5mg/L] and is potentially toxic to terrestrial vertebrates based on laboratory animal toxicity data [LD₅₀ (oral, rat) 262mg/kg].

Environmental risk and safety phrases:

Harmful to the soil environment.

Very toxic to terrestrial invertebrates

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Abamectin 0.1%)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :

Product Disposal: 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.

Container Disposal: 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.
(Abamectin 0.1%)

UN Number: 3082

DG Class: 9

Maximum Transport Quantity: 1L.

Other requirements:

N/A

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SECTION 15: REGULATORY INFORMATION

Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A009150. See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act, Approval Code HSR007674
See www.epa.govt.nz for approval conditions

HSNO and ACVM controls:

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

Refer to Section 3

List exposure limits:

N/A

SECTION 16: OTHER INFORMATION

Additional information:

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

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