

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Genesis Ultra Pour On
Product code:	A009222
Recommended use:	For the treatment and control of internal parasites, including mature and immature liver fluke, and lice in cattle.
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:	1 June 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Clear Brown Liquid

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Abamectin	71751-41-2	5g/L
Triclabendazole	68786-66-3	300g/L
2-(2-butoxyethoxy)- ethanol	112-34-5	500g/L
Benzenemethanol	100-51-6	50g/L
Other		To 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1D, 6.3B, 6.4A, 6.5B, 6.8B, 6.8C, 6.9B, 9.1A, 9.2C, 9.3B, 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. Wash hands and exposed skin before meals and after use. May cause mild skin irritation. Avoid skin contact. May cause eye irritation. Avoid contact with eyes. Repeated exposure may cause skin allergy. Avoid skin contact. Abamectin possibly may affect development and/or reproduction. Handle with care. Abamectin may have effects on/or via lactation. Handle with care. Triclabendazole possibly may affect the liver and alimentary system. The solvent, 2-(2-butoxyethoxy)-ethanol, possibly may affect the kidney (oral) and liver (inhalation). 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 vertebrates. 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. <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:	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 (potential developmental toxin, organ toxin, irritant).

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non flammable, non combustible
Fire hazard properties:	Genesis Ultra Pour On is not classified as flammable and will not support combustion. Hazardous fumes when heated to decomposition.
Regulatory requirements:	Not applicable
Extinguishing media and methods:	Extinguish using water spray or chemical foam. Do not allow fire 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
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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 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

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(Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	Ethanol, 2-(2-butoxyethoxy)- NZ Not set DFGMAK TWA 100 mg/m ³ 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:	TEL Triclabendazole, Skin surface deposition 0.05 mg/m ² surface area
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> : clear brown liquid <u>Specific gravity</u> : ~ 1.1 g/ml <u>Boiling point</u> : ca. 210°C <u>Solubility in Water</u> : Triclabendazole is 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:	May be harmful if swallowed. May cause mild skin irritation. May cause eye irritation. Repeated exposure may cause skin allergy. Danger of serious damage to health by prolonged exposure if swallowed, inhaled or absorbed through skin. Abamectin possibly may affect development and/or reproduction. Abamectin may have effects on/or via lactation.
Summaries data:	Triclabendazole possibly may affect the liver and alimentary system. The solvent, 2-(2-butoxyethoxy)-ethanol, possibly may affect the kidney (oral) and liver (inhalation). <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>Benzenemethanol</u> : An organic alcohol that is used as a preservative [LD ₅₀ (oral, rabbit) 1050mg/kg; LD ₅₀ (dermal, rabbit) 2000mg/kg].

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It is a known skin sensitiser (contact dermatitis) and a moderate eye irritant.

Triclabendazole: Benzimidazoles prevent tubulin polymerization or spindle movement and their administration can result in aneuploidy. Triclabendazole has is an acute oral toxin [LD₅₀ (oral, rats & mice) >8 g/kg; LD₅₀ (oral, rabbit) 206 mg/kg]. In the guinea pig optimisation test, a positive sensitisation reaction was reported after intracutaneous injection, but not after epidermal challenge. Single oral doses of 10mg/kg are well tolerated in humans. In repeated dose studies main effects were hepatotoxicity (increased liver weight and histopathological changes) and growth retardation (LOAEL 3.5mg/kg/d).

Ethanol, 2-(2-butoxyethoxy)-: Low to moderate acute toxicity in laboratory species [LD₅₀ (oral) 2000-9600mg/kg; LD₅₀ (dermal) 2700mg/kg]. Repeated oral dose study in rats reported nephrotoxicity (oral LOAEL 51mg/kg/d). Chronic inhalation study in rats reported hepatotoxicity (inhalation NOAEL 0.04mg/L/d). Slightly irritating to skin and irritating to eyes.

Format:

No further available data

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:

Very toxic to aquatic organisms. Harmful to the soil environment. Toxic to terrestrial vertebrates. 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 ug/bee; LD₅₀ (contact) 0.002 ug/bee].
Triclabendazole: Triclabendazole is a potential terrestrial vertebrate toxin based on laboratory animal toxicity data [LD₅₀ (oral, rabbit) 206 mg/kg].

Environmental risk and safety phrases:

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].
Harmful to the soil environment.
Toxic to terrestrial vertebrates.
Very toxic to terrestrial invertebrates
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Abamectin 0.5%)

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.

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SECTION 14: TRANSPORT INFORMATION

Relevant information:	Dangerous Goods for transport. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin 0.5%) UN Number: 3082 DG Class: 9 Maximum Transport Quantity: 1L.
Other requirements:	N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A009222. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO Act, Approval Code HSR001889 See www.epa.govt.nz for approval conditions
HSNO and ACVM controls:	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 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.
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