

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Genesis Injection with B12 and Selenium
Product code:	A009888
Recommended use:	Long acting subcutaneous injection for the control and treatment of internal parasites and external parasites in cattle and internal parasites in sheep and aids in the treatment and prevention of Vitamin B ₁₂ (Cobalt) and Selenium deficiency in sheep and cattle. Also for the treatment and control of sucking 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:	15 May 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Clear liquid solution

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Abamectin	71751-41-2	10g/L
Glycerol formal	5464-28-8	607.5g/L
Vitamin B12		2g/L
Selenium		4g/L
Other		To 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1D, 6.8B, 6.8C 9.1A, 9.2C, 9.3C, 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 eye irritation. Avoid contact with eyes. May affect development and/or reproduction. Handle with care. May 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. Harmful to terrestrial vertebrates. Avoid release to the environment. Very toxic to terrestrial invertebrates. Avoid release to the environment.

SAFETY DATA SHEET

Product Name: Genesis Injection with B12 and Selenium

Page 2 of 5
Reviewed on: 2 February 2018

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. SELF INJECTION: Seek medical advice.
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 Injection with B12 and Selenium 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 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

SAFETY DATA SHEET

Product Name: Genesis Injection with B12 and Selenium

Page 3 of 5
Reviewed on: 2 February 2018

(Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	None set
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:	N/A.
Engineering controls:	N/A.
Personal protection:	Clothing should consist of overalls with long sleeves, and impervious gloves. Eye protection is prudent (eg. Goggle or face shield).
References:	N/A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Clear liquid solution <u>Specific gravity:</u> ~ 1.15 g / mL <u>Solubility in Water:</u> Active 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. Danger of serious damage to health by prolonged exposure if swallowed. May affect development and/or reproduction. May have effects on or via lactation.
Summaries data:	<u>Abamectin:</u> Abamectin is an acute oral toxin [LD ₅₀ (oral) 8.7 mg/kg]. Ingestion of a single large dose of abamectin by humans (~100 mg/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 studies were mortality and reduced weight gain in early lactation (NOAEL 0.12mg/kg/d). <u>Glycerol formal:</u> A solvent with known potential for teratogenic and embryotoxic effects. At repeated doses of 0.25mL/day and above glycerol formal induced elevated post implantation losses and reduced foetal weights in rats (oral and injected doses). Foetal malformations occurred at doses of 0.5 and 1 mL/kg/day.
Format:	No further available data

SAFETY DATA SHEET

Product Name: Genesis Injection with B12 and Selenium

Page 4 of 5
Reviewed on: 2 February 2018

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:

Very toxic to aquatic organisms. Harmful to the soil environment. Harmful 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); LC₅₀ Daphnia magna 0.34 ppb (48hrs)]. Persist: yes. Soil organisms: Dung beetle Terrestrial fate value 20-40. Terrestrial Fate Soil DT50 >30 days. Birds: Abamectin is practically non toxic to birds [LC₅₀ Bobwhite quail >2000 mg/kg]. There were no adverse effects on reproduction when mallard ducks were fed up to 12ppm for 18 weeks. It is toxic to mammals [LD₅₀ (oral) 8.7 mg/kg]. Abamectin is highly toxic to bees [LD₅₀ (oral) 0.0094 ug/bee; LD₅₀ (contact) 0.002 ug/bee].

Environmental risk and safety phrases:

Selenium: Selenium is highly toxic to fish [LC₅₀ Fathead minnow is 0.69 mg/L(96hrs)], crustacean [LC₅₀ Rainbow trout 3.6 ppb (96hrs)], crustacea [LC₅₀ *Grammarus pseudolimnaeus* 0.083 mg/L (48hrs)] and algae [EC₅₀ Green algae 0.2 m/L (96hrs)]. Selenium is bioaccumulative and persists. Toxic to soil organisms. Toxic to terrestrial invertebrates based on an acute oral LD₅₀(rats) of 25 mg/kg.

Harmful to the soil environment.
Harmful to terrestrial vertebrates
Very toxic to terrestrial invertebrates
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Abamectin 1%)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :

Product Disposal: Preferably dispose of the product by use. Otherwise dispose of product and packaging (30mL syringe and cap) by wrapping in paper and placing in the garbage. Avoid contamination of any water source. 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 1%)
UN Number: 3082
DG Class: 9
Maximum Transport Quantity: 1L.

Other requirements:

N/A

SAFETY DATA SHEET

Product Name: Genesis Injection with B12 and Selenium

Page 5 of 5
Reviewed on: 2 February 2018

SECTION 15: REGULATORY INFORMATION

Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A009888. See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act, Approval Code HSR002488
See www.epa.govt.nz for approval conditions

HSNO and ACVM controls:

SDS is required for quantities greater than 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

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.