

# SAFETY DATA SHEET

Product Name: Genesis Injection with B12 and Selenium

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Reviewed on: 16<sup>th</sup> October 2008

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>Genesis Injection with B12 and Selenium</b>
<b>Product code:</b>	A9888
<b>Recommended use:</b>	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 <sub>12</sub> (Cobalt) and Selenium deficiency in sheep and cattle. Also for the treatment and control of sucking lice in cattle
<b>Company details:</b>	Merial Ancare
<b>Address:</b>	Level 3, Merial Building Osterley Way Manukau City New Zealand
<b>Telephone number:</b>	Phone: +64 9 980 1600 Fax: +64 9 980 1601
<b>Emergency telephone number:</b>	Merial Ancare Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
<b>Date of preparation:</b>	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.

## 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

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<b>Workplace facilities:</b>	vomiting. <u>EYES:</u> If splashed in eyes wash out immediately with water.
<b>Required instructions:</b>	<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. <u>SELF INJECTION:</u> Seek medical advice. No special facilities required.
<b>Notes for medical personnel:</b>	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. Apply symptomatic therapy (no specific antidote). Note the nature of the product.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	Non flammable, Non, Combustible, Non explosive
<b>Fire hazard properties:</b>	Genesis Injection with B12 and Selenium 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. Prevent 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 25°C in a cool place away from direct sunlight. Keep out of reach of children.
<b>Store site requirements:</b>	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.
<b>Packaging:</b>	Packaging Schedule 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	None set
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<b>Application in the workplace:</b>	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin and eye contact.
<b>Exposure standards outside the workplace:</b>	N/A.
<b>Engineering controls:</b>	N/A.
<b>Personal protection:</b>	Clothing should consist of overalls with long sleeves, and impervious gloves. Eye protection is prudent (eg. Goggle or face shield).
<b>References:</b>	N/A.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Specify product data:</b>	<u>Appearance:</u> Clear liquid solution <u>Specific gravity:</u> ~ 1.15 g / mL <u>Solubility in Water:</u> Active is insoluble 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. Danger of serious damage to health by prolonged exposure if swallowed. May affect development and/or reproduction. May have effects on or via lactation.
<b>Summaries data:</b>	<u>Abamectin:</u> Abamectin is an acute oral toxin [LD <sub>50</sub> (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.
<b>Format:</b>	No further available data

## SECTION 12: ENVIRONMENTAL INFORMATION

<b>Potential environmental interactions:</b>	Very toxic to aquatic organisms. Harmful to the soil environment. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates.
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<b>Data organisation :</b>	<p><u>Abamectin</u>: Abamectin is a highly effective insecticide and acaricide produced by the soil microbe <i>Streptomyces avermitilis</i>. 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 [LC<sub>50</sub> Rainbow trout is 3.6 ppb (96hrs); LC<sub>50</sub> Daphnia magna 0.34 ppb (48hrs) ]. Persist: yes. Soil organisms: Dung beetle Terrestrial fate value 20-40. Terrestrial Fate Soil DT50 &gt;30 days. Birds: Abamectin is practically non toxic to birds [LC<sub>50</sub> Bobwhite quail &gt;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 [LD<sub>50</sub> (oral) 8.7 mg/kg]. Abamectin is highly toxic to bees [LD<sub>50</sub> (oral) 0.0094 ug/bee; LD<sub>50</sub> (contact) 0.002 ug/bee].</p> <p><u>Selenium</u>: Selenium is highly toxic to fish [LC<sub>50</sub> Fathead minnow is 0.69 mg/L(96hrs)], crustacean [LC<sub>50</sub> Rainbow trout 3.6 ppb (96hrs)], crustacea [LC<sub>50</sub> <i>Grammarus pseudolimnaeus</i> 0.083 mg/L (48hrs)] and algae [EC<sub>50</sub> Green algae 0.2 mg/L (96hrs)]. Selenium is bioaccumulative and persists. Toxic to soil organisms. Toxic to terrestrial invertebrates based on an acute oral LD<sub>50</sub>(rats) of 25 mg/kg.</p>
<b>Environmental risk and safety phrases:</b>	<p>Harmful to the soil environment. Harmful to terrestrial vertebrates Very toxic to terrestrial invertebrates ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin 1%)</p>

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Disposal information :</b>	<p><u>Product Disposal</u>: 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.</p>
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## SECTION 14: TRANSPORT INFORMATION

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

## SECTION 15: REGULATORY INFORMATION

<b>Regulatory status:</b>	<p>Registered pursuant to the ACVM Act 1997, No. A9888. See <a href="http://www.nzfsa.govt.nz/acvm">www.nzfsa.govt.nz/acvm</a> for registration conditions.</p> <p>Approved pursuant to the HSNO Act, Approval Code HSR002488 See <a href="http://www.ermanz.govt.nz">www.ermanz.govt.nz</a> for approval conditions</p>
<b>HSNO and ACVM controls:</b>	<p>SDS is required for quantities greater than 1L. Refer to Section 3</p>
<b>List exposure limits:</b>	<p>N/A</p>

## SECTION 16: OTHER INFORMATION

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**Additional information:**

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

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