

# SAFETY DATA SHEET

Product Name: ALBENDAZOLE Sheep

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Reviewed on: 4<sup>th</sup> September 2008

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>ALBENDAZOLE Sheep</b>
<b>Product code:</b>	A6520
<b>Recommended use:</b>	For the control of albendazole sensitive roundworms, tapeworms, lungworms and adult fluke in sheep.
<b>Company details:</b>	Merial New Zealand Ltd
<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>	19 April 2006

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical characterization:</b>	Liquid	
<b>Product components:</b>		
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Albendazole	54965-21-8	23.8 g/L
Other		to 1L

## SECTION 3: HAZARDS IDENTIFICATION

<b>Hazard classifications:</b>	6.3B, 6.5B, 6.6B, 6.8A, 6.9B
<b>Priority and secondary identifiers:</b>	None required
<b>Risk and safety phrases:</b>	6.3B May cause mild skin irritation. Avoid skin contact. 6.5B Repeated exposure may cause skin allergy. Avoid skin contact. 6.6B Albendazole possibly may cause damage to genetic material. Handle with care. 6.8A Albendazole may affect development and/or reproduction. Handle with care. 6.9B Albendazole possibly may cause organ damage from repeated oral exposure at high doses. Handle with care.

## SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	<b>For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.</b> <u>Ingestion:</u> If swallowed seek medical attention. Do NOT induce vomiting. <u>Eye Contact:</u> If splashed in eyes wash out immediately with water. <u>Skin Contact:</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.
<b>Workplace facilities:</b>	No special facilities required.
<b>Required instructions:</b>	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.
<b>Notes for medical personnel:</b>	Apply symptomatic therapy. Note the nature of the product (possible mutagen, reproductive/developmental toxin)

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## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	Non flammable, Non combustible, Non explosive
<b>Fire hazard properties:</b>	Albendazole Sheep is not classified as flammable, and will not support combustion. Hazardous fumes when heated to decomposition.
<b>Regulatory requirements:</b>	N/A
<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>	N/A
<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. Avoid 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 in a cool place with lid on. Keep out of reach of children.
<b>Store site requirements:</b>	This substance is subject to a requirement for an emergency management plan and secondary containment, whenever it is held in quantities of 1000L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
<b>Packaging:</b>	Packaging Schedule 3 for quantities >1L (Hazardous Substances Packaging Regulations 2001. UN Packing Group III.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	Dusts 10mg/m <sup>3</sup>
<b>Application in the workplace:</b>	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
<b>Exposure standards outside the workplace:</b>	TELs and EELs are not set at this time.
<b>Engineering controls:</b>	Ensure that ventilation maintains dust levels below WES,
<b>Personal protection:</b>	Clothing should consist of overalls with long sleeves and impervious gloves.
<b>References:</b>	N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Specify product data:</b>	<u>Formulation type:</u> Suspension <u>Appearance:</u> White to off-white suspension <u>Specific gravity:</u> ~1.0 g/ mL <u>Boiling Point:</u> ca. 100° C <u>pH:</u> 4.0-5.0 <u>Vapour Pressure:</u> NA <u>Solubility in Water:</u> Albendazole is insoluble
<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>	<u>Albendazole Sheep:</u> May cause mild skin irritation. Repeated exposure may cause skin allergy. Danger of serious damage to health by prolonged exposure if swallowed. Albendazole possibly may cause damage to genetic material. Albendazole may affect development and/or reproduction. Albendazole possibly may cause organ damage from repeated oral exposure at high doses.
<b>Summaries data:</b>	<u>Albendazole:</u> Benzimidazoles prevent tubulin polymerisation or spindle movement and their administration can result in aneuploidy. They are weak mutagens. Albendazole has low to moderate acute oral toxicity [LD <sub>50</sub> (oral, rabbit) 500-1250mg/kg; LD <sub>50</sub> (oral, rat) 1320-2400mg/kg; LD <sub>50</sub> (oral, mice) >3000mg/kg]. Identified as a potential skin sensitiser by a positive result in a guinea pig maximisation test. In repeated dose studies toxic effects included reduced weight gain, reduced erythrocyte and leucocyte counts, decreased testes and uterine weights, slight increases in relative liver and kidney weights, and sternal bone marrow hypocellularity (lowest NOAEL 5mg/kg/day). Teratogenicity (visceral, craniofacial and bone defects) has been demonstrated in animal studies (lowest NOEL was 5mg/kg/day).

## SECTION 12: ENVIRONMENTAL INFORMATION

<b>Potential environmental interactions:</b>	Not toxic to the environment.
<b>Data organisation :</b>	<u>Albendazole:</u> Albendazole may be toxic to terrestrial vertebrates based on LD <sub>50</sub> data [LD <sub>50</sub> (oral, rabbit) 500-1250mg/kg]. Not toxic to fish or honey bees. The potential for bioaccumulation is low and benzimidazoles are degraded in soil and probably also in water.
<b>Environmental risk and safety phrases:</b>	EU risk and safety phrases may be used.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Disposal information :</b>	Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved
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	facility. 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

<b>Relevant information:</b>	Not classified as dangerous for rail, road, air or sea transport. The maximum quantity per package of this substance allowed for carriage on public transport is 1L.
<b>Other requirements:</b>	N/A

## SECTION 15: REGULATORY INFORMATION

<b>Regulatory status:</b>	Registered pursuant to the ACVM Act 1997, No. A6520 See <a href="http://www.nzfsa.govt.nz/acvm">www.nzfsa.govt.nz/acvm</a> for registration conditions
	Approved pursuant to the HSNO Act, Approval Code HSR002240 See <a href="http://www.ermanz.govt.nz">www.ermanz.govt.nz</a> for approval conditions
<b>HSNO and ACVM controls:</b>	SDS is required for quantities greater than or equal to 0.1L Refer to Section 3
<b>List exposure limits:</b>	N/A

## SECTION 16: OTHER INFORMATION

<b>Additional information:</b>	For product information visit the Merial website <a href="http://www.merial.co.nz">www.merial.co.nz</a> 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.
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