



SAFETY DATA SHEET

Product Name: Albendazole C

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Reviewed on: 1st September 2008

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Albendazole C
Product code:	A6841
Recommended use:	Low volume albendazole drench. For the control of roundworms, lungworm and tapeworm in cattle and deer, and adult liver fluke and type II <i>Ostertagia</i> in cattle. Contains selenium.
Company details:	Merial New Zealand Ltd
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Merial Ancare Freephone: 0800 800 822 National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
Date of preparation:	28 March 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Liquid suspension

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Albendazole	54965-21-8	150
Sodium selenate	13410-01-0	3.5
Other		to 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1E, 6.3B, 6.5B, 6.6B, 6.8A, 6.9B, 9.1C, 9.2C
Priority and secondary identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
Risk and safety phrases:	6.1E May be harmful if swallowed. Handle with care. 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. 9.1C Harmful to aquatic life. Avoid contamination of any water supply with product or empty container. 9.2C Harmful to the soil environment. 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.

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Workplace facilities:	<u>Ingestion:</u> If swallowed seek medical attention. Do NOT induce vomiting.
Required instructions:	<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. No special facilities required.
Notes for medical personnel:	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. Apply symptomatic therapy (eg. activated charcoal). Note the nature of the product.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non flammable, Non combustible, Non explosive
Fire hazard properties:	Albendazole C is not classified as flammable and will not support combustion. Hazardous fumes when heated to decomposition.
Regulatory requirements:	N/A
Extinguishing media and methods:	Treat the fire as for the other materials present. Do not allow water to enter drains.
Hazchem code:	N/A
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 in a cool place with top secured. 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 1000L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging:	Packaging Schedule 3 for quantities >1L (Hazardous Substances Packaging Regulations 2001). UN Packing Group III.

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	Selenium compounds, as Se TWA 0.1mg/m ³ Dusts 10mg/m ³
Application in the workplace:	Prevent exposure by engineering controls, personal protection 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>Formulation type:</u> Suspension <u>Appearance:</u> Blue suspension <u>Specific gravity:</u> 1.0g / mL <u>Boiling Point:</u> ca. 100° C <u>Vapour Pressure:</u> NA <u>Solubility in Water:</u> Insoluble, formulated as a suspension
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 conditions 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:	State any other information that might describe a likely hazard from the product.

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	<u>Albendazole C:</u> May be harmful if swallowed. 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.
Summaries data:	<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 ₅₀ (oral, rabbit) 500-1250mg/kg; LD ₅₀ (oral, rat) 1320-2400mg/kg; LD ₅₀ (oral, mice) >3000 mg/kg]. Identified as a potential skin sensitiser by a positive

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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 5 mg/kg/day). Sodium Selenate: Sodium selenate is acutely toxic [LD₅₀ (oral) 25mg/kg]. Dusts are toxic if inhaled and irritant to eyes. Acute poisoning exhibits as dyspnea, spasms and death from respiratory failure. Selenium poisoning in humans has been described and gastrointestinal and neurological symptoms predominated. Potential mutagen. Repeated dose testing in laboratory species identified a lowest NOAEL of 0.37mg/kg/day (liver toxicity).

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:	Harmful to aquatic life and to the soil environment.
Data organisation :	<u>Albendazole</u> : Albendazole may be toxic to terrestrial vertebrates based on LD ₅₀ data [LD ₅₀ (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. <u>Sodium Selenate</u> : Very toxic to fish [LC ₅₀ (96 hr, Flathead minnow) 690ug/L], to crustacea [LC ₅₀ (48hr, <i>Grammarus pseudolimnaeus</i>) 83ug/L] and algae [EC ₅₀ (96hr, green algae) 0.2mg/L]. Toxic to plants [EC20 (22d) 0.1mg/kg soil]. Toxic to terrestrial vertebrates based on an acute oral LD ₅₀ (rats) of 25 mg/kg. Selenium is bioaccumulative and persists.
Environmental risk and safety phrases:	EU risk and safety phrases may be used.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Relevant information:	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.
Other requirements:	N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A6841 See www.nzfsa.govt.nz/acvm for registration conditions Approved pursuant to the HSNO Act, Approval Code HSR001941 See www.ermanz.govt.nz for approval conditions
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HSNO and ACVM controls:

SDS is required for quantities greater than or equal to 0.1L

Refer to Section 3

List exposure limits:

N/A

SECTION 16: OTHER INFORMATION

Additional information:

For product information visit the Merial website www.merial.co.nz

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