

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Switch C Hi Mineral
Product code:	A010274
Recommended use:	Low dose oral drench for the treatment and control of internal parasites 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:	April 2009

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Liquid		
Product components:			
Name	CAS	Proportion	
Abamectin	71751-41-2	Min. 4.0	
Levamisole HCl	16595-80-5	min. 160	
Selenium (as sodium selenate)	as 13410-01-0	2 (selenium)	
Disodium cobalt EDTA			
Disodium copper EDTA	15137-09-4	59	
	14025-15-1	60	
Other		to 1L	

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1D; 6.3B; 6.4A; 6.5B; 6.6B; 6.8B; 6.8C; 6.9A; 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:	6.1D May be harmful if swallowed. 6.3B May cause skin irritation. 6.4A May cause eye irritation. 6.5B Repeated exposure may cause skin allergy. 6.6B Levamisole HCl possibly may cause damage to genetic material. 6.8B Abamectin may affect development and/or reproduction. 6.8C Abamectin may have effects on or via lactation. 6.9A Abamectin (nervous system), Levamisole HCl (blood and haematopoietic system), Cobalt (heart/vascular system), Copper (nephrotoxicity) may possibly cause organ damage. <i>Wash hands and exposed skin before meals and after use. Avoid contact with the skin and eyes. Handle with care.</i> 9.1A Very toxic to aquatic organisms. 9.2C Harmful to the soil environment. 9.3C Harmful to terrestrial vertebrates. 9.4A Very toxic to terrestrial invertebrates. <i>Avoid contamination of any water supply with product or empty</i>

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container. 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 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.

Workplace facilities:

No special facilities required.

Required instructions:

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.

Notes for medical personnel:

Apply symptomatic therapy (no specific antidote). Note the nature of the product (possible mutagen, reproductive/developmental toxin and sensitiser).

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:

Non flammable, Non combustible, Non explosive

Fire hazard properties:

This product 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 skin and eye 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.

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 below 25°C with top secured. Keep out of reach of children.

Store site requirements:

This substance is subject to a requirement for an emergency management plan and secondary containment, whenever it is held

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Packaging: in quantities of 100L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging Schedule 3 (UN Packing Group III) for quantities >1L (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards: Dusts 10mg/m³

Application in the workplace: Prevent exposure by using engineering controls, personal protective equipment 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: Formulation type: Suspension
Appearance: Blue to green liquid
Specific gravity: ~1.0g – 1.2 g/ mL
Boiling Point: ca. 100° C
pH: ~4
Vapour Pressure: NA
Solubility in Water: Active ingredient insoluble

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: Switch C Hi Mineral
May be harmful if swallowed. May cause skin and eye irritation. Repeated exposure may cause skin allergy. Levamisole HCl possibly may cause damage to genetic material. Abamectin may affect development and/or reproduction. Abamectin may have effects on or via lactation. Levamisole HCl (blood and haematopoietic system), cobalt (heart/vascular/respiratory system) and copper (nephrotoxicity) possibly may cause organ damage.

Summaries data: Switch C Hi Mineral
May be harmful if swallowed. May cause skin and eye irritation. Repeated exposure may cause skin allergy. Levamisole HCl possibly may cause damage to genetic material. Abamectin may affect development and/or reproduction. Abamectin may have effects on

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or via lactation. Levamisole HCl (blood and haematopoietic system), cobalt (heart/vascular/respiratory system) and copper (nephrotoxicity) possibly may cause organ damage.

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:

Switch C Hi Mineral

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 3.6ppb (96hrs); EC₅₀ *Daphnia magna* 0.34ppb (48hrs)]. Persist: yes. Soil organisms: Dung beetle Terrestrial fate value 20-40. Abamectin is toxic to mammals [LD₅₀ (oral, rats) 8.7mg/kg], but is less toxic to birds [LC₅₀ Bobwhite quail >2000mg/kg]. Abamectin is highly toxic to bees [LD₅₀ (oral) 0.0094ug/bee; LD₅₀ (contact) 0.002ug/bee].

Levamisole HCl

Levamisole is potentially toxic to terrestrial vertebrates based on LD₅₀ data [LD₅₀ (oral, rats & mice) = 200-500 mg/kg]. Not toxic to fish or honey bees. Levamisole does not bioaccumulate in biological systems. In soil, levamisole has a half-life of five to seventy five days depending on sunlight, soil type and climatic conditions. Levamisole binds strongly to soil particles and organic matter. It does not leach in soils and is readily degraded by hydrolysis and microbial action.

Cobalt disodium EDTA

Cobalt is toxic to fish and other aquatic life [LC₅₀ (96hr, Trout) 1.406mg/L; EC₅₀ (48hr, *Daphnia magna*) 1.11mg/L]. Not readily biodegradable, cobalt persists.

Copper disodium EDTA

Slightly harmful in the aquatic environment (classification based on biocidal action)

Environmental risk and safety phrases:

Not classified as dangerous for rail, road, air or sea transport.

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.

SECTION 14: TRANSPORT INFORMATION

Relevant information:

Dangerous Goods for transport.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Abamectin 0.4%)
UN Number: 3082
Dangerous Goods Class: 9

The maximum quantity per package of this substance allowed for carriage on public transport is 1L.
For tank wagon and transportable containers there is a need to

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Other requirements:	comply with Reg. 4-43 where applicable. N/A
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SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A010274 See www.foodsafety.govt.nz for registration conditions
	Approved pursuant to the HSNO Act, Approval Code HSR008014 See www.epa.govt.nz for approval conditions
HSNO and ACVM controls:	SDS is required for quantities greater than or equal to 0.1L Refer to Section 3
List exposure limits:	None set

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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