

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>Switch C Hi-Mineral</b>
<b>Product code:</b>	A010274
<b>Recommended use:</b>	Low dose oral drench for the treatment and control of internal parasites in cattle
<b>Company details:</b>	Boehringer Ingelheim Animal Health New Zealand Limited
<b>Address:</b>	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
<b>Telephone number:</b>	Phone: +64 9 263 1400
<b>Emergency telephone number:</b>	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
<b>Date of issue:</b>	April 2009
<b>Date of review:</b>	7 February 2020

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Liquid

**Product components:**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Abamectin	71751-41-2	4 g/L
Levamisole HCl	16595-80-5	160 g/L
Sodium selenate	13410-01-0	4.8 g/L
Disodium cobalt EDTA	15137-09-4	<10%
Disodium copper EDTA	14025-15-1	<10%
Other		to 1 L

## SECTION 3: HAZARDS IDENTIFICATION

<b>Hazard classifications:</b>	6.1D; 6.3B; 6.4A; 6.5B; 6.6B; 6.8B; 6.8C; 6.9A; 9.1A; 9.2C; 9.3C; 9.4A
<b>Priority and secondary identifiers:</b>	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
<b>Risk and safety phrases:</b>	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. 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.

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## SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. <u>Ingestion</u> : If swallowed, seek medical attention. Do NOT induce vomiting. <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.
<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 (no specific antidote). Note the nature of the product (possible mutagen, reproductive/developmental toxin and sensitiser).

## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	Non flammable, Non combustible, Non explosive
<b>Fire hazard properties:</b>	This product 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 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.
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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 below 25 °C with top secured. 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 100 L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
<b>Packaging:</b>	Packaging Schedule 3 (UN Packing Group III) for quantities >1 L

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(Hazardous Substances Packaging Regulations 2001).

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	Dusts 10 mg/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

<b>Specify product data:</b>	<u>Formulation type:</u> Suspension <u>Appearance:</u> Blue to green liquid <u>Specific gravity:</u> ~1.0 g-1.2 g/mL <u>Boiling Point:</u> ca. 100 °C <u>pH:</u> ~4 <u>Vapour Pressure:</u> NA <u>Solubility in Water:</u> Active ingredient 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>Switch C Hi Mineral</u> 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.
<b>Summaries data:</b>	<u>Switch C Hi Mineral</u> 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.

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## 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 [LC<sub>50</sub> Rainbow trout is 3.6 ppb (96hrs); EC<sub>50</sub> *Daphnia magna* 0.34 ppb (48hrs)]. Persistent: yes. Soil organisms: Dung beetle Terrestrial fate value 20-40. Abamectin is toxic to mammals [LD<sub>50</sub> (oral, rats) 8.7 mg/kg], but is less toxic to birds [LC<sub>50</sub> Bobwhite quail >2000 mg/kg]. Abamectin is highly toxic to bees [LD<sub>50</sub> (oral) 0.0094 µg/bee; LD<sub>50</sub> (contact) 0.002 µg/bee].

#### Levamisole HCl

Levamisole is potentially toxic to terrestrial vertebrates based on LD<sub>50</sub> data [LD<sub>50</sub> (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 [LC<sub>50</sub> (96hr, Trout) 1.406 mg/L; EC<sub>50</sub> (48hr, *Daphnia magna*) 1.11 mg/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:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)

## 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)  
UN Number: 3082  
Dangerous Goods Class: 9

The maximum quantity per package of this substance allowed for carriage on public transport is 1 L.  
For tank wagon and transportable containers there is a need to comply with Reg. 4-43 where applicable.

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**Other requirements:** N/A

## SECTION 15: REGULATORY INFORMATION

**Regulatory status:** Registered pursuant to the ACVM Act 1997, No. A010274  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act, Approval Code HSR008014  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions

**HSNO and ACVM controls:** SDS is required for quantities greater than or equal to 0.1 L  
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](http://www.boehringer-ingelheim.co.nz)

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