

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

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| Product name: | Iver Switch Tape Hi-Mineral |
| Product code: | A011155 |
| Recommended use: | A combination anthelmintic drench combined with selenium and cobalt supplements for lambs raised in selenium or cobalt deficient areas. |
| 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 9 263 1400 |
| 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: | 8 July 2016 |

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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| Chemical characterization: | Liquid containing levamisole, ivermectin, praziquantel, sodium selenate and cobalt EDTA | | |
| Product components: | | | |
| <u>Name</u> | <u>CAS</u> | <u>Proportion g/L</u> | |
| Levamisole HCL | 16595-80-5 | 44 | |
| Ivermectin | 70288-86-7 | 1 | |
| Praziquantel | 55268-74-1 | 19 | |
| Selenium (as sodium selenate) | 13410-01-1 | 1.2 | |
| Cobalt (as cobalt EDTA) | 15137-09-4 | 16 | |
| Ingredients determined not to be hazardous | - | To volume | |

SECTION 3: HAZARDS IDENTIFICATION

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| Hazard classifications: | 6.1D, 6.5B, 6.6B, 6.8B, 6.8C, 6.9B, 9.1A, 9.2A, 9.3C, 9.4A |
| Priority and secondary identifiers: | Harmful – keep out of reach of children Ecotoxic |
| Risk and safety phrases: | <p>May be harmful if swallowed, inhaled or absorbed through the skin. Avoid skin contact or inhalation. Wash hands and exposed skin before meals and after work.</p> <p>Harmful – may cause eye irritation. Avoid contact with eyes.</p> <p>Toxic – may cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of gas / vapours / dust / mist / aerosol.</p> <p>Warning – Repeated exposure may cause skin allergy. Avoid skin contact.</p> <p>Harmful – suspected of causing heritable mutations/genetic defects</p> <p>Toxic – may cause reproductive/development damage from repeated oral exposure</p> <p>Harmful – May cause organ damage from repeated oral exposure at high doses</p> <p>Ecotoxic – Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.</p> <p>Harmful to the soil environment. Apply only as directed.</p> <p>Very toxic to terrestrial invertebrates. Apply only as directed</p> |

SECTION 4: FIRST AID MEASURES

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| Necessary first aid measures: | <p>Contact the National Poisons Information Centre for further information: phone 0800 POISON (764 766).</p> <p><u>Eye Contact:</u> Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.</p> <p><u>Skin Contact:</u> Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.</p> <p><u>Inhalation:</u> Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.</p> <p><u>Ingestion:</u> Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical assistance immediately.</p> <p><u>Other First Aid:</u> None known.</p> |
| Workplace facilities: | Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower. |
| Required instructions: | N/A |
| Notes for medical personnel: | Treat symptomatically. |

SECTION 5: FIRE FIGHTING MEASURES

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| Type of hazard: | Non flammable. |
| Fire hazard properties: | Toxic fumes produced in a fire include oxides of carbon, nitrogen, sulphur and hydrogen chloride. |
| Regulatory requirements: | N/A |
| Extinguishing media and methods: | Extinguish fires with foam, dry chemical or carbon dioxide. Cool sealed drums with water to prevent rupture due to thermal expansion. Contain run-off. Keep non-involved persons away. |
| Hazchem code: | 2X |
| Recommended protective clothing: | Wear PVC protective clothing and breathing apparatus. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Emergency procedures: | <p>Wear protective clothing (overalls, chemical resistant gloves, boots and safety goggles). Clear area of unprotected personnel. Prevent further spillage. Caution, large product spills may be slippery.</p> <p>Contain spill and absorb with sand, soil or absorbent granules. Sweep up solids without generating dust. Wash down affected area with water plus detergent. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterways contact the local authority. Absorb and collect washings in an appropriate sealable container for disposal in an approved landfill. Seek advice from the local authority regarding disposal.</p> |
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SECTION 7: HANDLING AND STORAGE

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| Precautions for safe handling: | Handle with care. |
| Regulatory requirements: | N/A |
| Handling practices: | N/A |
| Approved handlers: | Not required |
| Conditions for safe storage: | Store at or below 25°C. Protect from light. Keep out of reach of children. |
| Store site requirements: | Stores containing equal to or more than 100L of Iver SWITCH Tape Hi Min require |

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| | bunding and are subject to signage. See Hazardous Substances Emergency Management Regulations 35-41, Identification Regulations 34 & 35 and NZS 8409 for further information. |
| Packaging: | Packing Group III |

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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| Workplace exposure standards: | No exposure limits have been specifically assigned for this product. |
| Application in the workplace: | N/A |
| Exposure standards outside the workplace: | N/A |
| Engineering controls: | Handle in a well ventilated area, generally natural ventilation is adequate. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower. |
| Personal protection: | Avoid unnecessary contact. Wash immediately if any personal contact occurs. Wash protective clothing before storage or reuse. Wash thoroughly after handling and before eating, drinking or smoking. |
| References: | N/A |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Specify product data: | <u>Appearance:</u> Opaque pink fluid with mild aromatic smell <u>Specific Gravity:</u> ~1.05g/mL @ 20°C <u>pH:</u> 3.7 – 4.8 <u>Solubility in Water:</u> Miscible |
| Required specifications: | N/A |
| Further specifications: | N/A |
| Specific advice: | N/A |

SECTION 10: STABILITY AND REACTIVITY

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| Stability of the substance: | Stable under normal conditions. |
| Conditions to avoid: | Can be hydrolysed by strong caustic solution. |
| Material to avoid: | Incompatible with oxidising agents. |
| Hazardous decomposition products: | In a fire toxic fumes may be released if heated to decomposition. |
| Hazardous polymerization: | Will not occur |
| Specific data: | N/A |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Data and interpretation: | <u>Levamisole HCL</u> | <u>Ivermectin</u> | <u>Praziquantel</u> | <u>Sodium selenate</u> |
| Oral LD ₅₀ (rat) | 180mg/kg | 50mg/kg | >1000mg/kg | 7mg/kg |
| Dermal LD ₅₀ (rabbit) | - | >406mg/kg | - | - |
| Summaries data: | N/A | | | |
| Effect of Acute Exposure | <u>Eye Contact:</u> May cause eye irritation. Sodium selenate may cause conjunctivitis. <u>Skin Contact:</u> May cause skin irritation. Sodium selenate may cause eczema. | | | |

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| | <p><u>Inhalation:</u> Inhalation exposure is unlikely. May cause respiratory tract irritation.</p> <p><u>Ingestion:</u> May irritate.</p> <p><u>Other Health Effects:</u> Over exposure to ivermectin, symptoms may include increased activity, slow rate of breathing, dilation of the pupils, muscle tremors and in coordination.</p> <p>Adverse effects may include abdominal pain, diarrhoea, nausea, vomiting and hair loss.</p> |
| Effect of Chronic Exposure: | NA |

SECTION 12: ENVIRONMENTAL INFORMATION

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| Potential environmental interactions: | Harmful to fish. Do not contaminate drains or water supply with product | | |
| Data organisation: | <u>Levamisole</u> | <u>Praziquantel</u> | <u>Ivermectin</u> |
| | <u>HCl</u> | | |
| | LC ₅₀ (daphnia Magna) | - | - |
| | | | 25ppt |
| Environmental risk and safety phrases: | Environmentally hazardous substance, Liquid, N.O.S. (ivermectin) Marine pollutant | | |

SECTION 13: DISPOSAL CONSIDERATIONS

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| Disposal information: | Dispose of this product only by using in accordance with the label or at an approved landfill. Do NOT reuse container for any other purpose. Ensure container is completely empty. Recycle or burn if circumstances, especially wind direction and local authority bylaws permit. Otherwise bury in a suitable landfill. |
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SECTION 14: TRANSPORT INFORMATION

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| Relevant information: | DG Class 9 for road transport UN 3082 Maximum Transport Quantity: 250 L Tracking not required. |
| Other requirements: | N/A |

SECTION 15: REGULATORY INFORMATION

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| Regulatory status: | Registered pursuant to the ACVM Act 1997, No.A011155. See www.foodsafety.govt.nz for registration conditions. |
| | Approved pursuant to the HSNO Act 1996, Approval Code HSR001789. See www.epa.govt.nz for approval conditions. |
| HSNO and ACVM controls: | Refer to Section 3 |
| List exposure limits: | N/A |

SECTION 16: OTHER INFORMATION

Additional information: Do not use at the same time as any other selenised fertilizer, prill or other product without consulting a veterinarian.

For product information visit the Boehringer Ingelheim website
www.boehringer-ingelheim.co.nz

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