



# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	Corporal + Tape Mineralised Drench for Sheep
<b>Recommended use:</b>	Combination anthelmintic for the control of levamisole or benzimidazole resistant roundworms, lungworms and adult fluke in lambs and sheep. Endoparasiticide.
<b>Company name:</b>	Alleva Animal Health Limited
<b>Address:</b>	15 Calman Place, Birkenhead, Auckland
<b>Telephone:</b>	0064-9-4181405
<b>Emergency telephone number:</b>	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
<b>Date of Preparation</b>	24 April 2017
<b>Restrictions of Use</b>	Refer to Section 15

## SECTION 2: HAZARDS IDENTIFICATION

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval No: HSR001919

### Pictograms



Irritant



Chronic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.5B	H317	May cause an allergic skin reaction.	Category 1
6.6B	H341	Suspected of causing	Category 2



		genetic defects.	
6.8A	H360	May damage fertility or the unborn child.	Category 1A
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	Category 2

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fume, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### SECTION 3: COMPOSITION

Product Components:		
Name	CAS #	Concentration
Albendazole	54965-21-8	25g/L
Levamisole hydrochloride	16595-80-5	37.5g/L
Praziquantel	55268-74-1	18.8g/L



## SECTION 4: FIRST AID MEASURES

<b>First Aid</b>	<p><b>Skin Contact:</b> Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.</p> <p><b>Eye Contact:</b> Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.</p> <p><b>Ingestion:</b> Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p><b>Inhaled:</b> Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult or if you feel unwell.</p>
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## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	This product is non-flammable, non-combustible and non-explosive.
<b>Fire hazard properties:</b>	None known
<b>Extinguishing media and methods:</b>	Use media suitable for surrounding materials.
<b>Hazchem code:</b>	<b>None allocated</b>
<b>Recommended protective clothing:</b>	Wear protective gear. Do not allow water to enter drains.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Personnel involved in clean-up should wear appropriate personal protective equipment as detailed in Section 8 to minimise exposure. Restrict access to contaminated area.
<b>Environmental Precautions:</b>	Prevent material from entering surface water drains or waterways.



<p><b>Procedure for Spills:</b></p>	<p>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.</p>
<p><b>Procedure for Disposal:</b></p>	<p>Contaminated material must be disposed of at an approved landfill or other approved facility in accordance with local, regional and national requirements. Avoid contamination of any water supply with product or empty container.</p>

## SECTION 7: HANDLING AND STORAGE

<p><b>Precautions for safe handling:</b></p>	<ul style="list-style-type: none"> <li>• Read label before use.</li> <li>• Obtain special instructions before use.</li> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Apply with well-maintained and calibrated equipment.</li> <li>• Do not breathe fume, vapours or spray.</li> <li>• Contaminated work clothing should not be allowed out of the workplace.</li> <li>• Wear protective clothing.</li> <li>• Use personal protective equipment as required.</li> </ul>
<p><b>Approved handlers:</b></p>	<p>Not required</p>
<p><b>Conditions for safe storage:</b></p>	<ul style="list-style-type: none"> <li>• Store away from incompatible materials listed in Section 10.</li> <li>• Keep out of reach of children.</li> <li>• Store locked up.</li> <li>• 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</li> </ul>



	(Emergency Management regulations 25 to 42.)
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## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

No substance has exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

<b>Engineering controls:</b>	Ensure that ventilation maintains dust levels below WES. Praziquantel, Skin surface deposition- 2.83mg/m <sup>2</sup> surface area.
<b>Personal protection:</b>	<p><b>Respiratory protection:</b> Not required. Wear respiratory protection if in an area of poor ventilation.</p> <p><b>Hand protection:</b> Clothing should consist of overalls with long sleeves and impervious gloves. Wear protective goggles.</p> <p><b>Eye protection:</b> Wear goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.</p>

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Blue suspension
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	2.5 – 4.0
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable



<b>Flammability</b>	Not applicable
<b>Upper and Lower Explosive Limits</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Specific Gravity</b>	1.03 – 1.07
<b>Solubilities</b>	Not applicable
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>Kinematic Viscosity</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable

### SECTION 10: STABILITY AND REACTIVITY

<b>Stability of the substance:</b>	This product is stable under normal conditions.
<b>Conditions to avoid:</b>	None known.
<b>Material to avoid:</b>	None known.
<b>Hazardous decomposition products:</b>	No hazardous products are expected, except when heated to decomposition.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute effects:</b>	
<b>Swallowed</b>	May be harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Causes mild skin irritation. May cause an allergic skin reaction.
<b>Chronic and long-term effects:</b>	
<b>Reproductive Systemic</b>	May damage fertility or the unborn child. Albendazole may affect development and/or reproduction.
<b>Carcinogenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Suspected of causing genetic defects. Albendazole and Levamisole HCl possibly may cause damage to genetic material.
<b>STOT/RE</b>	Albendazole possibly may cause organ



	damage from repeated oral exposure at high doses. Levamisole HCl possibly may affect the blood and haematopoietic system.
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Albendazole: Benzimidazoles prevent tubulin polymerization or spindle movement and their administration can result in aneuploidy. They are weak mutagens. Albendazole has low to moderate acute oral toxicity [LD50 (oral, rabbit) 500-1200mg/kg; LD50 (oral, rat) 1320-2400mg/kg; LD50 (oral, mice) >3000 mg/kg] Identified as a potential skin sensitizer by a positive result in a guinea pig maximization test. In repeated oral 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 sterna bone marrow hypocellularity (lowest NOAEL 5mg/kg/day. Teratogenicity (visceral, craniofacial and bone defects) has been demonstrated in animal studies (lowest NOAEL was 5mg/kg/day) Levamisole HCl: Levamisole is a broad spectrum anthelmintic with a long history of use in cattle and sheep. It has a moderate to high acute toxicity [LD50(oral, rats & mice) 200-500 mg/kg] A potential mutagen [levamisole induced chromosome gaps and breaks in human lymphocytes in vitro and in vivo and levamisole hydrochloride induced an increase in mitotic index, numerical chromosomal changes (aneuploidy, polyploidy) and structural chromosomal changes] haemolytic anaemic was the main toxic effect demonstrated in repeated dose animal studies (LOAEL 1.25mg/kg/day) In humans, levamisole has been associated with various non-specific effects (nausea, vomiting, rashes). Levamisole has induced leucopenia and agranulocytosis (idiosyncratic) at low doses.

Praziquantel: has a low toxicity and is generally well tolerated [LD50 (oral, rabbit) 1050 mg/kg.

## SECTION 12: ENVIRONMENTAL INFORMATION

This product is not harmful to the environment.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available



### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Product disposal:</b>	<p>Preferably dispose of product by use in accordance with label directions.</p> <p>Otherwise dispose of product at an approved landfill, or other approved facility in accordance with local, regional and national regulations.</p> <p>Dispose of empty containers by wrapping in paper and putting in garbage for disposal at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with empty container. Used needles and syringes should immediately be placed in a designated and appropriately labelled "sharps" container.</p>
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### SECTION 14: TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

### SECTION 15: REGULATORY INFORMATION

<b>Regulatory status:</b>	Approved pursuant to the HSNO Act, EPA Approval Code HSR001916 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions.
<b>HSNO controls:</b>	<b>Trigger Quantity</b>
<b>Approved Handler</b>	Not required
<b>Location Certificate</b>	Not required
<b>Tracking Trigger Quantities</b>	Not required
<b>Signage Trigger Quantities</b>	Not required
<b>Emergency Response Plan</b>	1000L/Kg (6.5B)
<b>Secondary Containment</b>	1000L/Kg (6.5B)
<b>Restriction of Use</b>	None





## SECTION 16: OTHER INFORMATION

This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. ALLEVA Animal Health Limited makes no warranty with respect hereto and disclaims all liability from reliance thereon.

Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.

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