



# MATERIAL SAFETY DATA SHEET

## Bovaid Cattle Drench

Issue date: July, 2015      Review date: July, 2020

### **SECTION 1: SUBSTANCE IDENTIFICATION AND SUPPLIER**

Product name: BOVAID  
 Recommended Use: Cattle Drench  
 Company identification Address:  
     1229 Maraekakaho Road  
     Hastings 4175  
     New Zealand  
     Phone (06) 873 3611  
 Poisons Information Centre: 0800-764-766  
     Or CHEMCAL 0800-243-622 24hr emergencies only

### **SECTION 2: HAZARD IDENTIFICATION**

2.1 Hazard pictograms



2.2 Priority Identifiers: TOXIC, ECOTOXIC, Keep out of reach of Children

#### **HSNO Classes      Secondary Identifiers:**

6.1D	Maybe harmful if swallowed, inhaled or absorbed through the skin
6.3B	May cause mild skin irritation
6.5B	Repeated exposure may cause skin allergy
6.6B	Suspected of causing genetic defects
6.8A	May cause reproductive/development damage. May damage fertility of the unborn child
6.9B	May cause organ damage from repeated ingestion at high doses
9.3C	Harmful to terrestrial vertebrates

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS Number.	Content (% w/v)
Albendazole (active ingredient)	54965-21-8	10
Levamisole hydrochloride (active ingredient)	16595-80-5	7.5
Other ingredients	Proprietary	Remainder

### **SECTION 4: FIRST AID MEASURES**

- 4.1 **Skin Contact** – In case of contact, immediately wash affected area with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.
- 4.2 **Eye Contact** – Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek medical advice if irritation persists.
- 4.3 **Ingestion** – Do not induce vomiting. Seek medical advice immediately.

- 4.4 **Inhalation** – Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical advice immediately.
- 4.5 **Workplace Facilities** – Hand wash facility. Eye wash facility.
- 4.6 **Advice to Doctor** – No specific antidote. Treat symptomatically.
- 4.7 **National Poison Centre** – 0800 POISON (0800 764 766) (24 HOURS)

## **SECTION 5: FIRE FIGHTING MEASURES**

- 5.1 **Fire/Explosion Hazard** – Non-flammable
- 5.2 **HAZCHEM Code** – N/A
- 5.3 **ERP Guide No** – N/A
- 5.4 **Extinguishing Media** – Water spray, foam, dry chemical or CO<sub>2</sub>. Avoid water jet.
- 5.5 **Fire Fighting Instructions** – During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

## **SECTION 6: ACCIDENTIAL RELEASE MEASURES**

Caution: Floors may be slippery if wet. When dealing with spills wear personal protective clothing and equipment as described in section 8. Prevent further spillage or leakage. Keep bystanders away. Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

## **SECTION 7: STORAGE, HANDLING AND USE**

- 7.1 **Storage** – Keep out of reach of children Store in the original, tightly closed container, in a secure area.
- 7.2 **Handling and Use** – Keep out of reach of children. Avoid contact with eyes and skin. When using, wear protective clothing as described in section 8. Do not eat, drink or smoke while using. Wash hands and face after use. Wash protective clothing after use. Fatal interactions may occur between levamisole and organophosphate dips.
- 7.3 **Approved Handler** – Not required
- 7.4 **Tracking** – Not required.
- 7.5 **Record Keeping** – Not required
- 7.6 **Site Requirements under the HSNO Act 1996 and HSNO Regulations**
  - A location test certificate is not required
  - A hazardous atmosphere zone is not required
  - Fire extinguishers are not required
  - Signage is required for 10000 litres or more
  - Emergency information is required for 0.1 litre or more
  - An emergency plan is required for more than 1000 litres
  - Secondary containment is required for more than 1000 litres
  - Separation/Segregation from incompatible substances is not applicable.

- 7.7 **Additional Requirements** – All aspects of storage, handling, use, disposal and record keeping must be in accordance with the NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.

## **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

- 8.1 **Tolerable Exposure Limit** – None established.
- 8.2 **Workplace Exposure Standards** – None established (Use lowest practicable level).  
**Active ingredient** – None established (Use lowest practicable level).
- 8.3 **Engineering Controls** – Limited given nature of use.

### **Personal Protection:**

Eye – Not required under normal use.

Skin – Cotton overalls snugly fitting at the neck, wrist and ankle, boots and water proof gloves.

Respiratory – Not required when used as directed.

## **SECTION 9: PHYSICAL DESCRIPTION / PROPERTIES**

Form:	Off white liquid
Odour:	Odourless
Boiling Point	>100 °C
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Explosive limits:	Not applicable
Density	1.0 g/mL (approx.)
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Solubility in Water:	Dispersible
pH	Not available
Oxidising Properties:	Not an oxidizer
Corrosive Properties:	Not a corrosive

## **SECTION 10: STABILITY AND REACTIVITY**

- 10.1 **Stability:** Stable under normal conditions.
- 10.2 **Incompatibility:** Avoid mixing with strong acids, alkalis and oxidizing agents.
- 10.3 **Decomposition:** Decomposition will not occur under normal conditions.
- 10.4 **Dangerous reactions:** Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

Swallowed	Information not available
Eye	Non-irritant
Skin	May cause mild irritation. Skin contact may cause an allergic skin reaction in susceptible individuals. This may result in rash, redness, itching or swelling.
Inhalation	Information not available.

Acute Toxicity (Active Ingredient)

**Albendazole**

- Acute Oral LD50 (Rabbit) 500 – 1250 mg/kg
- Acute Dermal LD50 > 2000 mg/kg
- Inhalation LC50 (4 hr) > 5 mg/l

**Levamisole hydrochloride**

- Acute Oral LD50 (Rat) 200 mg/kg
- Acute Dermal LD 50 > 2000 mg/kg
- Inhalation LC50 (4 hr) > 5 mg/l

Sensitisation Effects:	Skin contact may cause an allergic skin reaction in susceptible individuals. This may result in a rash, redness, itching, swelling.
Mutagenic Effects:	Albendazole and levamisole are suspected of causing genetic defects.
Carcinogenic Effects:	None
Reproductive Effects:	Extended animal feeding studies on albendazole found reproductive effects
Teratogenic (Birth) Effects:	Extended animal feeding studies on albendazole found teratogenic effects
Systemic Effects:	Ingestion of levamisole at high doses is damaging to the blood and hematopoietic system.

**SECTION 12: ECOTOXICITY INFORMATION**

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredient:

Ecotoxic Effects:	<b>Albendazole</b> <ul style="list-style-type: none"> <li>• Acute Oral LD50 (Rat) 500 – 1250 mg/kg</li> <li>• Aquatic toxicity &gt; 100 mg/l</li> </ul> <b>Levamisole hydrochloride</b> <ul style="list-style-type: none"> <li>• Acute Oral LD50 (Rat) 200 mg/kg</li> <li>• Aquatic toxicity &gt; 100 mg/l</li> </ul>
Environmental Fate	Biodegradable ( <b>Albendazole</b> ) Biodegradable ( <b>Levamisole HCL</b> )
Partition Co-Efficient (Know)	LogP = 3.33 (high) ( <b>Albendazole</b> ) LogP = Not available ( <b>Levamisole HCL</b> )
Environmental Exposure Limit	None established

**SECTION 13: DISPOSAL CONSIDERATIONS**

Product	Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact AHD Ltd.
Container	Dispose of to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

**SECTION 14: TRANSPORT INFORMATION**

Dangerous goods	
UN Number:	Not classified

Proper Shipping Name: Not applicable  
 Class: Not applicable  
 Subsidiary Class: Not applicable  
 Packing Group: Not applicable  
 Additional Information: Not applicable  
 MTQ (Non-Commercial): Not applicable  
 Passenger Service Vehicle: Maximum quantity 1 Litre

## **SECTION 15: REGULATORY INFORMATION**

HSNO Approval No: HSR001911  
 ACVM Registration No: A11145

## **SECTION 16: OTHER INFORMATION**

### **Glossary**

Approved Handler	For some hazardous substances, persons storing, handling and using must be trained and certified.
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, eg water, soil.
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
HAZCHEM Code	Emergency action code for emergency services
HSNO	Hazardous Substances and New Organisms
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% of organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user.
Partition Co-Efficient Know	Ratio of concentration between octanol and water. Values are given as the log value. A high value indicates a substance may bioaccumulate.
Record Keeping	Includes a spray diary
REI	Restricted Entry interval - The length of time after application before entry into the treated area is permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.
Safety Note	A brief document providing hazardous substance information for transport, storage and emergency management purposes.
STEL	Short term exposure level
Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed.
Tracking	For some hazardous substances, a record must be kept of the transport, storage, sale and use of the product.
TWA	Time weighted average.
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are exposed.
Wide Dispersive Use	A method of application involving equipment such as boom sprayers, mist blowers, vine sprayers, row sprayers, etc., as well as aerial application. Hand gunning within 30m of a property boundary is also classed as wide dispersive use. Knapsack sprayers are not classed as wide dispersive use.

### **PLEASE NOTE:**

**Users must ensure that the most up to date version of this safety data sheet is used.**

### **DISCLAIMER**

*The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.*