



# MATERIAL SAFETY DATA SHEET

## Detonate

Issue date: 14 March 2018

Review date: 14 March 2023

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product name: AHD Detonate  
 Recommended Use: Endoparasiticide for use in horses  
 Restriction of Use: Refer to section 15  
 Manufacturer: Jaychem Industries Ltd  
 3 Kordel Place, East Tamaki, Auckland  
 Phone: (09) 274 6647

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

Transport Emergency 111 Fire and police

### SECTION 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval No: HSR001749**

#### Pictograms



Irritant

Chronic

Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.8C	H362	May cause harm to breast-fed children.	Lact.
9.1A	H410	Very toxic to aquatic life with long lasting	Aquatic Chronic 1
9.2C	H423	Harmful to the soil environment.	
9.4A	H441	Very toxic to terrestrial invertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P260	Do not breathe fumes or vapours.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective PPE as described in Section 8.

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.
P391	Collect spillage.
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
None allocated	

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

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

INGREDIENTS	Conc, g/L	CAS Number.
Ivermectin	4 g/L	70288-86-7
Non-hazardous or trace ingredients	To bal	

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

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin rash or irritation occurs: get medical advice/attention.
If Swallowed	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. Seek medical attention if needed.
If Inhaled	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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

- Ingestion:** Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.
- Inhalation:** Not applicable.
- Skin:** Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.
- Eye:** Not applicable.
- Chronic:** May cause harm to breast-fed children.

**SECTION 5: FIRE FIGHTING MEASURES**

<b>Hazard Type</b>	Non Flammable.
<b>Hazards from combustion products</b>	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.  Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire.  Fire decomposition products from this product are likely to be irritating if inhaled.
<b>Suitable Extinguishing media</b>	Use media suitable for surrounding materials.
<b>Precautions for firefighters and special protective clothing</b>	Wear full protective gear.
<b>HAZCHEM CODE</b>	<b>3Z</b>

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Contain the spill and prevent further dispersion.

In event of a major spill do not allow to enter waterways.

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.

Dispose of waste according to the applicable local and national regulations.

**SECTION 7: HANDLING AND STORAGE****Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.

- Obtain special instructions before use.
- Do not breathe fumes or vapours.
- Avoid contact during pregnancy/while nursing.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective PPE as described in Section 8.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store in the closed original container in a dry, cool (below 30°C), well-ventilated area out of direct sunlight.

**SECTION 8: EXPOSURE CONTROLS / 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 ingredients have 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. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

**Engineering Controls**

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

**Personal Protection Equipment**

<b>Eyes</b>	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
<b>Skin</b>	Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types. We suggest that protective clothing be made from the following materials: rubber, PVC.
<b>Respiratory</b>	If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask. Otherwise, not normally necessary.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Gel, free from particles
<b>Colour</b>	Clear blue green
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	6.0 – 7.0
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	0.959 – 1.06 @ 20°C
<b>Water Solubility</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition</b>	Not available
<b>Decomposition</b>	Not available
<b>Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

**SECTION 10: STABILITY AND REACTIVITY**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute Effects:**

<b>Swallowed</b>	May be harmful if swallowed. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.
<b>Dermal</b>	Not applicable.

<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	May cause an allergic skin reaction. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	May cause harm to breast-fed children.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

**Ivermectin:**

Ivermectin  $\geq 0.1\%$  Conc  $< 0.5\%$

Ivermectin: LD50 Oral, Mouse = 11.6mg/kg      LD50 DEPAI, Rabbit = 406mg/kg

**SECTION 12: ECOTOXICOLOGICAL INFORMATION**

HSNO Classes:      9.1A = Very toxic to aquatic life with long lasting effects.  
                           9.2C = Harmful to the soil environment.  
                           9.4A = Very toxic to terrestrial invertebrates.

<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

Avoid release to the environment. Do not contaminate dams, rivers, streams or other waterways with this product or used containers.

**Ivermectin:**

- Fish: LC50 rainbow trout (*Oncorhynchus mykiss*): 0.0036mg/L
- Bees: LD50 0.002pg/bee
- Daphnia: EC50 0.00034mg/L

**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal Method:**

Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

**Precautions or methods to avoid:** Avoid release to the environment. Do not contaminate dams, rivers, streams or other waterways with this product or used containers.

**SECTION 14: TRANSPORT INFORMATION**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

**Road and Rail Transport**

UN No: 3082  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.

**Air Transport**

UN No: 3082  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.

**Marine Transport**

UN No: 3082  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.

**Limited Quantities Statement:**

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**SECTION 15: REGULATORY INFORMATION****New Zealand:**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR001749

HSNO Classification: 6.1E(Oral), 6.5B, 6.8C, 9.1A, 9.2C, 9.4A

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Signage Trigger Quantities (Schedule 3)	100Kg (9.1A)
Emergency Response Plan (Schedule 5)	100Kg (9.1A)
Secondary Containment (Schedule 5)	100Kg (9.1A)
Tracking (Schedule 26)	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	This substance must not be applied onto or into water.
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
<b>ACVM Act and Regulations</b>	
ACVM Approval No:	A009607

<b>Tolerable Exposure Level (TEL)</b>	No TEL set
<b>Environmental Exposure Level (EEL)</b>	No EEL set

## **SECTION 16: OTHER INFORMATION**

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub> ingesting it.	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

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