MATERIAL SAFETY DATA SHEET
Detonate

Issue date: 14 March 2023 Review date: 14 March 2028

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	

SECTON 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

Hazard Type	Non Flammable.
Hazards from combustion products	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.
Suitable Extinguishing media	Use media suitable for surrounding materials.
Precautions for firefighters and special protective clothing	Wear full protective gear.
HAZCHEM CODE	**3Z**

SECTION 6: ACCIDENTIAL 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)

	TWA		STEL	
Substance	**ppm**	**mg/m³**	**ppm**	**mg/m³**

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

Eyes	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.
Skin	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.
Respiratory	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.

SECTON 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gel, free from particles
Colour	Clear blue green
Odour	Not available
Odour Threshold	Not available
pH	6.0 – 7.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	0.959 – 1.06 @ 20^0C
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition	Not available
Decomposition	Not available
Viscosity	Not available
Particle Characteristics	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatible Materials	None known.
Hazardous Decomposition Products	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:

Swallowed	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.
Dermal	Not applicable.

Inhalation	Not applicable.
Eye	Not applicable.
Skin	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:

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

Ivermectin:

Ivermectin >=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.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	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 CONSIDERATONS

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

HSW (HS) Regulations 2017	**Trigger Quantity**
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
HSNO Additional Controls (Restrictions of use)	
77A	This substance must not be applied onto or into water.
Hazardous Property Controls Notice 2017	
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
ACVM Act and Regulations	
ACVM Approval No:	A009607
Tolerable Exposure Level (TEL)	No TEL set

Environmental Exposure Level (EEL)	No EEL set

SECTION 16: OTHER INFORMATION

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, Jaychem, if further information is required.

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