

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Ratabate Paste**
 Product Use: Vertebrate Toxic Agent for use as per label instructions.
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Connovation Limited**
 Address: 36 B Sir William Drive
 East Tamaki, Auckland

PO Box 58613
 Botany, Auckland, 2163

Telephone: +64 9 273 4333
 Fax: +64 9 374 4334
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 January 2025

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR001596

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs (blood and hematopoietic system) through prolonged or repeated exposure.
Designed for biocidal action.		Designed for biocidal action

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P273	Avoid release to the environment [if this is not the intended use].

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.

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	Wt%	CAS NUMBER.
Diphacinone	0.005%	82-66-6
Other ingredients	>99.9%	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Flood eye gently with clean fresh running water. Continue rinsing for at least 15 minutes. Take care not to rinse contaminated water into a non-affected eye. Remove contact lenses, if present and easy to do after first 5 minutes then continue rinsing. Use anti-histamine eye drops. Obtain medical advice if irritation occurs.
If on Skin	Take off contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical advice. Do not give anything by mouth to an unconscious person.
If Inhaled	Not expected to be a route of exposure.

Most important symptoms and effects, both acute and delayed

Symptoms:	May cause damage to organs (blood and hematopoietic system) through prolonged or repeated exposure.
Notes to Doctor:	Product contains Diphacinone, a compound that affects the blood and hematopoietic system.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	Avoid breathing smoke.
Suitable Extinguishing media	Water spray, foam, CO2 or dry chemical appropriate to surrounding materials.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus and personal protection clothing (gas tight suit, helmet). Keep container cool.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

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

Do not allow to contaminate watercourses or the ground.

Contain spill and transfer to suitable labeled container for re-use if suitable or for disposal. In event of major spill, inform Fire Service via 111 and then local Health Protection Officer at the

Public Health Unit or hospital . Dispose of as hazardous waste to an approved waste management company in accordance with local regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Use bait stations or bait bags.
- Refer to product label.
- Wear gloves when handling this product.
- Wash protective clothing and equipment daily after work and separate to household laundry.
- Ensure insides of gloves are dry before re-use.
- Do not handle or consume food, drink or smoke after handling and before meals, rest breaks, smoking.
- Wash hands and any exposed skin thoroughly with soap and water, or wipes.
- Use personal protective equipment as required.
- Avoid release to the environment [if this is not the intended use].
- Do not breathe fumes.

Precautions for Storage:

- Store in tightly closed original container in a cool dry place out of reach of children and pets and away from any food, drink and animal foodstuffs.
- Do not store with Class 1 (Explosives), 3 (Flammables), 5.1 (Oxidisers), 5.2 (Organic Peroxide Oxidizers), or 8 (Corrosive) products. Do not store with Class 1 (Explosives), 3 (Flammables), 5.1 (Oxidisers), 5.2 (Organic Peroxide Oxidizers), or 8 (Corrosive) products.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Cyanides, as CN [151-50-8]		5		

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 2023 14TH EDITION.

Engineering Controls

None set.

Personal Protective Equipment:



Eyes	Not required.
Skin	Non-porous gloves, overalls and boots recommended.
Respiratory	Not required.

Section 9 Physical and Chemical Properties

Appearance	Grainy paste
Colour	Green
Odour	Not available
Odour Threshold	Not available

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Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	No data available.
Incompatible Materials	None identified.
Hazardous Decomposition Products	No specific hazardous compounds identified.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered however, Diphacinone ingested in large amounts may not show symptoms until several days later. Symptoms may include bloody discharge from nose, gums and eyes, loss of fluids, bloody stools and urine, coughing up blood, anaemia and bruising. Initial symptoms may also include back pain and pallor.
Dermal	Not triggered however Diphacinone can be absorbed through the skin so prolonged or repeated exposure may result in symptoms as described for ingestion.
Inhalation	Not applicable.
Eye	Not applicable however grainy components in the paste may result in irritation and redness if they contaminate the eye.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Diphacinone may cause damage to organs (blood and hematopoietic system) through prolonged or repeated exposure.

Individual component information:**Acute Toxicity:**

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Diphacinone	3 mg/kg (rat)	-	-

Section 12. Ecotoxicological Information

Designed for biocidal action

Ecotoxicity

Product is a Vertebrate Toxic Agent (VTA) so there is potential for harm to non-target terrestrial vertebrates. Avoid exposure to non-target species including domestic pets. If poisoning is suspected of domestic animals or livestock, consult a veterinarian immediately.

Persistence and degradability	No specific product information available. However no components have been identified as being persistent in the environment. Diphacinone will degrade when exposed to light, heat or soil micro organisms.
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations**Disposal Method:**

Dispose of empty containers safely. Crush and dispose of clean dry containers by burying to a depth of 60 cm with biologically active organic matter or in an approved landfill. Incineration of waste material is also possible in suitably approved and located facilities.

Precautions or methods to avoid: Avoid unintended release to the environment. Do not use empty containers for storing other products.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR001596

Refer to www.epa.govt.co.nz for full control document

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	No
Controlled Substance License	No
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	10 000kg
Secondary Containment	10 000kg
Restrictions of Use	
77A - Permissions - requirements relating to permissions from the	Variation: No person may apply or otherwise use this substance on land administered or managed by the Department of

Authority under section 95A of the HSNO Act 1996	Conservation unless the person first obtains a Permission under section 95A of the Act from the Authority.
HPC Notice Part 4 Subpart B	
Use of ecotoxic substances in any place	Clauses 53, 56 and 57 of the Hazardous Property Controls Notice apply to this substance as if it is an agrichemical with the hazard classification hazardous to terrestrial vertebrates. In accordance with clause 56(1)(c) of the Hazardous Property Controls Notice, the Authority has specified that this substance must only be applied by ground-based application methods. Application means dropping, spreading, spraying, laying as bait, dusting, sprinkling, wiping, placing, or pouring the substance on ground or vegetation, and apply has a corresponding meaning. Contained ground-based application means application of a hazardous substance— (a) in a bait station, or bait bag, or other container that is fixed to an object; or (b) so that it is contained in some other way, such as in a pipe or burrow. Ground-based application means application from the ground, and includes contained ground-based application.
HPC Notice Part 4 Subpart C	
Qualifications required for application of ecotoxic pesticides	A person mixing, loading, or otherwise handling the substance in preparation for the substance to be applied to an application area must be a qualified loader. However, a person (person A) may mix, load or otherwise handle the substance if a qualified loader— (a) has provided guidance to person A in respect of the handling of the substance at the place; and (b) is available at all times to provide assistance, if necessary, to person A while the substance is being handled.

ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	V009506

Section 16 Other Information

Glossary

Cat	Category
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.

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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 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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

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