

# SAFETY DATA SHEET



## 16 Other Information.

The information contained in this Safety Data Sheet is provided in good faith and is believed to be accurate at the date of issue. Connovation makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this Safety Data Sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

Please read the label before using this product

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## 11. Toxicological Information.

<b>Toxicity Data</b>	LD50 Oral Rats (single dose) 5000mg/kg LD50 Dermal 2000mg/kg Anticoagulant baits are most toxic when ingested daily over a period of 5-7 days; multiple dose feeding can be as much as 100 times the toxicity of single dose feeds.
<b>Routes of Exposure</b>	Ingestion, skin contact, contact with eyes.
<b>Health Effects from Likely Routes of Exposure</b>	If ingested may reduce blood clotting ability, initial symptoms may include back pain and pallor, in extreme cases can cause nose and/or gum bleeding, bloody urine or stools and bleeding/bruising in joints. Intermittent skin contact is unlikely to have any adverse effects. The product is not a skin irritant or sensitizer. Avoid prolonged or daily skin contact. Contact with the eye is unlikely to cause any adverse poisoning effects but the oily nature of the paste and the hard grains may cause irritation.
<b>Medical Conditions Aggravated by Exposure</b>	Individuals with poor nutritional status and/or a Vitamin K deficiency, liver or kidney disorders or an infectious disease may be more susceptible.
<b>Carcinogenicity</b>	No data currently available.
<b>Reproductive Effects</b>	No data currently available.
<b>Tetratogenic Effects</b>	No data currently available.
<b>Organ Toxicity</b>	The principal target of diphacinone is the blood, specifically the clotting factors, but effects on the liver, kidneys, heart, and musculature have been seen, probably as secondary effects

## 12. Ecological Information

<b>Ecotoxicity</b>	<b>Effects on Birds.</b> Diphacinone is slightly toxic to birds. <b>Effects on Aquatic Organisms.</b> Diphacinone is moderately toxic to fish species.
<b>Persistence/Degradability</b>	Diphacinone has low potential to leach into soil; it is rapidly decomposed by in contact with water, soil, sunlight and heat.

## 13. Disposal Considerations.

<b>Disposal Methods and Containers</b>	Diphacinone is degraded by water, sunlight, heat and microbial action. Product which is surplus or spoiled should be disposed of by burying with other organic material on the active tip face of an appropriately managed landfill or buried with the biologically active layer of soil elsewhere within a secure area. Ensure that a good covering of earth is applied over the bait immediately to prevent access by scavengers. Alternatively burn unwanted bait material in a suitably constructed and appropriately located incinerator and bury any residues as above. Rinse out any empty containers and burn or bury as above. DO NOT use the containers for any other purpose.
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## 14. Transport Information.

<b>Not classified as dangerous for transport</b>	<b>NZS 5433</b>
<b>HazChem Code.</b>	<b>2X</b>

## 15. Regulatory Information.

<b>HSNO Approval Code</b>	HSR001596
<b>ACVM Registration Number</b>	V09506

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## 8. Exposure Controls/Personal Protection.

<b>National Exposure Standards</b>	No exposure standard allocated. This does not mean that the product is not harmful. Safe work practices should always be followed when working with a Vertebrate Poison.
<b>Engineering Controls</b>	Exercise awareness, as for any harmful substance. No special ventilation is required.
<b>Personal Protective Equipment</b>	<b>Respiratory Protection.</b> No respiratory protection is required  <b>Body Protection.</b> Wear protective clothing such as overall and boots when handling this product. Immediately remove all soiled and contaminated clothing and wash before re-use. Correct dispensing into bait stations and bait laying procedures are required.  <b>Hand Protection.</b> Wear protective, non porous gloves when handling this product, avoid prolonged skin contact.  <b>Eye Protection.</b> Not required.  <b>General Hygiene Considerations</b> Wash hands thoroughly in soapy water after handling this product and before eating, drinking or smoking.

## 9. Physical and Chemical Properties.

<b>Appearance</b>	A green speckled soft, oily paste.
<b>Odour</b>	Peanut Butter, peanut oil.
<b>pH</b>	Approximately neutral
<b>Vapour Pressure</b>	Not Applicable
<b>Vapour Density</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable
<b>Solubility</b>	Virtually insoluble in water, but will wash away if exposed to rain.
<b>Specific Gravity</b>	Approximately 0.9
<b>Flash Point</b>	Not Applicable
<b>Lower Flammability Limit</b>	Not Applicable
<b>Upper Flammability Limit</b>	Not Applicable
<b>Auto Ignition Temperature</b>	Not Applicable

## 10. Stability and Reactivity.

<b>Chemical Stability</b>	Stable and un-reactive
<b>Incompatible Materials</b>	Incompatible with strong acids and alkalis.
<b>Hazardous Decomposition Products</b>	None
<b>Polymerization</b>	Not Applicable
<b>Conditions to Avoid</b>	Do not store this product with foodstuffs or food containers.

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## 4. First Aid Measures.

<b>Ingestion</b>	Have the victim rinse the mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally rinse the mouth well with water. DO NOT give anything by mouth if the victim is unconscious. Seek urgent medical attention. Advise detail from the label or this MSD Sheet.
<b>Inhalation</b>	Not Applicable
<b>Skin Contact</b>	Avoid prolonged skin contact with this material. Immediately remove all contaminated clothing. Wash affected areas thoroughly with soap and water.
<b>Eye Contact</b>	Immediately flush the contaminated eye(s) with lukewarm flowing water for at least 15 minutes. Take care not to rinse contaminated water into a non affected eye.
<b>Medical Attention and</b>	In the case of serious poisoning call a Doctor or <b>Other Special Treatment</b> take to hospital without delay. Administer Vitamin K intramuscularly or orally as indicated in Bishydroxycoumarin overdoses.

## 5. Fire Fighting Measures.

For major fires call the Fire Brigade without delay. Ensure that an escape path is available from any fire.

<b>Type of Hazard</b>	This material is not flammable or combustible. In the event of a fire the container may give off toxic fumes.	
<b>Fire Hazard Properties</b>	Flashpoint	Not Applicable
	Upper Flammable Limit	Not Applicable
	Lower Flammable Limit	Not Applicable
	Auto-ignition Temperature	Not Applicable
	Flammability Classification	Not Applicable
	Flame Propagation Rate	Not Applicable
	Dust Explosion Potential	Not Applicable
	Fast Burning Characteristics	Not Applicable
	Release of Vapours	The product container may give off toxic vapours.
<b>Suitable Extinguishing Media</b>	Any extinguishing media may be used, depending on the fire.	
<b>Equipment for Fire Fighters</b>	Helmet (if necessary), protective footwear, fire resistant overalls, gloves, suitable respiratory protection.	

## 6. Accidental Release Measures.

<b>Methods for Containment And Cleanup</b>	Scoop or shovel any spilled product into sealable containers. Prevent product from entering waterways. Dispose of as per section 13 of this MSDS.
<b>Personal Safety Precautions</b>	Avoid skin contact, wear protective clothing when cleaning up spills.

## 7. Handling and Storage.

<b>Safe Handling</b>	Minimize handling and avoid repacking product into other containers except properly labeled Bait Stations. DO NOT handle around food stuffs or food containers
<b>Safe Storage</b>	Store in the original container, tightly secured, and under lock and key away from foodstuffs. Keep out of reach of children and domestic animals.

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## RatAbate Paste. A potent Anticoagulant Rodenticide.

### 1. Identification of the Material and the Supplier.

<b>Product Name</b>	RatAbate
<b>Article Number</b>	RBATE
<b>Other Names</b>	Diphacinone
<b>Product Uses</b>	Vertebrate Pest Control (Rats)
<b>Company Name</b>	Connovation Limited
<b>Address</b>	36B Sir William Avenue East Tamaki Auckland. New Zealand
<b>Telephone number</b>	(09) 273-4333
<b>Fax Number</b>	(09) 374-4334
<b>Website</b>	www.connovation.co.nz
<b>Emergency Telephone</b>	0800- 764-766
<b>National Poisons Centre</b>	(03) 479-7248

### 2. Hazards Identification.

#### HAZARDOUS SUBSTANCE.

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 Environmental Risk Management Authority Classifications

<b>Class 6 Toxicity</b>	6.9B	Target Organ Systemic
<b>Class 9 Ecotoxicity</b>	9.1D	Aquatic Ecotoxicity
<b>Risk Phrases</b>	R22	Harmful if Swallowed
<b>Safety Phrases</b>	S1/2 S36/37 S45	Keep locked up and out of reach of children. Wear suitable protective equipment and gloves In case of accident or if you feel unwell, seek medical advice immediately

### 3.Composition/Information on Ingredients.

<b>Ingredient Common Name</b>	Diphacinone
<b>CAS Number</b>	82-66-6, UN Number 2588
<b>% by weight</b>	0.005%
<b>Chemical Name</b>	[2-(diphenylacetyl)indan-1-3-dione.
<b>Molecular Weight</b>	340.38

Other ingredients to 100% are not classified as hazardous