



SAFETY DATA SHEET

RATSHOT FINAL KILL PASTE RODENTICIDE APVMA Approval No. 69210

SECTION 1. IDENTIFICATION

Product name: RATSHOT FINAL KILL PASTE RODENTICIDE APVMA Approval No. 69210

Recommended Use: Ready for use rodenticide containing 50ppm Brodifacoum.

Restrictions on Use: None specified.

Supplier of SDS: Freezone Public Health Pty Ltd

Supplier Address: 18 Gilpin Street
Shorncliffe QLD 4017

Supplier Phone: 07 3869 4436

Supplier Fax: 07 3869 4433

Supplier Email: info@freezone.net.au

Emergency Telephone Number: Craig Jephcott 0412 200 252
Poisons Information Centre 13 11 26

SECTION 2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Health Hazards: Not Classified

Physical Hazards: Not Classified

Environmental Hazards: Not Classified

Label Elements and Precautionary Statements

Hazard Statements: Not Classified

Precautionary Statements: EUH208 Contains 1, 2- Benzisothiazolin-3-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

P102 Keep out of reach of children.

P103 Read label before use.

P220 Keep / Store away from foodstuffs, beverages and animal feeding stuffs.

P262 Do not get on skin.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves [Professional users].

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P404 Store in a closed container.

P405 Store locked up.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

2,2'-Iminodiethanol contains <0.1% CAS number: 111-42-2 EC number: 203-868-0	Classification Eye Dam. 1 - H318 STOT RE 2 - H373
Brodifacoum contains 0.005% CAS number: 56073-10-0 EC number: 259-980-5 M factor (Acute) = 1 M factor (Chronic) = 1	Classification Acute Tox. 1 - H300 Acute Tox. 1 - H310 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Denatonium Benzoate contains 0.001% CAS number: 3734-33 EC number: 223-095-2	Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412

Full text for all hazard statements is contained in Section 16.

SECTION 4. FIRST AID MEASURES**First aid measures**

General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Brodifacoum is an indirect anticoagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalizes. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.
Inhalation	Unlikely to present an inhalation hazard as the product is supplied as a solid block. Move the exposed person to fresh air. Obtain medical advice immediately.
Ingestion	If swallowed, seek medical advice immediately and show the container or this SDS.
Skin contact	Rinse skin with water. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse eyes with water. Seek medical attention if irritation or symptoms persist.
Protection of first aiders	Use suitable protective equipment for surrounding materials.

Symptoms caused by exposure

General information	Severity of the symptoms described will vary depending on the concentration and length of exposure.
Inhalation	No symptoms known.
Ingestion	Rinse mouth. Do not induce vomiting. Call a medical doctor immediately.
Skin contact	May cause irritation to skin.
Eye contact	May cause slight irritation to eyes.

Medical attention and special treatments

Notes to the doctor	Treat symptomatically.
Specific treatments	Brodifacoum is an indirect anticoagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalizes. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

SECTION 5. FIREFIGHTING MEASURES**Extinguishing media**

Extinguish fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO₂) Alcohol resistant foam. Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions. This product contains paraffin wax which is combustible and vapours from molten wax are flammable.
DO NOT use water jet to extinguish fire, this will cause fire to spread.

Specific hazards arising from the chemical

Thermal combustion of product may produce harmful gasses or vapours.

Special protective equipment and precautions for firefighters

Firefighting precautions	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Protective equipment	Self-contained breathing apparatus, suitable gloves and boots.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Clean up methods	Reuse or recycle products wherever possible. Clean up promptly by sweeping. Transfer to a suitable labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

SECTION 7. HANDLING AND STORAGE

Precautions for handling	Avoid contact with skin and eyes. Contains chloracetamide, may produce an allergic reaction. Avoid dust formation. Do not smoke eat or drink while handling this product. Always use good personal hygiene procedures when handling chemicals. Wash hands and face before eating, drinking or smoking. Read the label before use. Unlikely to produce dust as the product is a wax block.
Conditions for safe storage	Keep in a cool, dry, well ventilated area. Keep out of the reach of children. Keep away from food and animal feedstuffs. Keep away from oxidising agents.
Specified end use	Ready for use rodenticide containing 50 ppm Brodifacoum. For indoor and outdoor use.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure limits**

Propylene glycol particulates	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 10
(Propane-1,2-diol particulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -
Propylene glycol	WEL 8-hr limit ppm: 150	WEL 8-hr limit mg/m ³ : 474
(Propane-1,2-diol total vapour and particulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -
Flour and Grain Dust	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m ³ : 10 WEL 15 min limit mg/m ³ : 30

Exposure controls

Respiratory protection	Unlikely to present an inhalation hazard. If levels approach the WEL then suitable approved respiratory protection should be worn.
Hand protection	Impervious gloves.
Eye protection	Tight fitting goggles if exposed to excessive dust.
Protective equipment	Impervious clothing, boots.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Colour	Red
Odour	Slight
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Combustible
Upper/lower flammability or explosive limits	No information available.

Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	Immiscible with water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions when used and stored in accordance with label.
Reactivity	There are no known reactivity hazards associated with this product.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	Heat, sparks and open flames.
Incompatible materials	Oxidising agents.
Hazardous decomposition	Combustion or thermal decomposition will produce toxic and irritant fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity- development	Based on available data the classification criteria are not met.
Specific target organ toxicity	
STOT- single exposure	Not classified as a specific target organ toxicant after a single exposure.
STOT- repeated exposure	Not classified as a specific target organ toxicant after a repeated exposure.
Aspiration hazard	
Aspiration hazard	Not relevant. In solid block form.
General information	
Inhalation	No symptoms known.
Ingestion	Ingestion of large amounts could be harmful.
Skin contact	Prolonged contact may cause dryness of the skin and irritation.
Eye contact	May irritate eyes.
Route of entry	Inhalation, ingestion, skin contact or eye contact.
Target organs	None known.
Toxicity of ingredients	

	Oral (Rat) LD50	Dermal (Rat) LD50
Brodifacoum	0.27 mg/kg	7.48 mg/kg
Denatonium Benzoate	584 mg/kg	-

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic organisms and terrestrial vertebrates. Read all precautions before use.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations. The
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generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal of packaging

Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

General	Not classified as dangerous for transport within Australia.
UN number	Not applicable.
UN proper shipping name	Not applicable.
Transport hazard class(es)	No transport warning sign required.
Packing group	Not applicable.
Environmental hazards	Not known as an environmentally hazardous substance/marine pollutant
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislation	<p><i>Work Health and Safety Act 2011 (Qld)</i></p> <p><i>Work Health and Safety Regulation 2011 (Qld)</i></p> <p>Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)</p>
EU legislation	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</p> <p>Commission Regulation (EU) No 453/2010 of 20 May 2010.</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</p> <p>Dangerous Preparations Directive 1999/45/EC.</p>

Dangerous Substances Directive 67/548/EEC.

Chemical safety assessment	No chemical safety assessment has been carried out.
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SECTION 16. OTHER INFORMATION

Revision date	13/12/16
Revision	3
Supersedes date	27/10/15
Complete hazard statements	<p>H300 Fatal if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H372 Causes damage to organs (Blood) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.