



SAFETY DATA SHEET

RATSHOT-G RODENTICIDE GRAIN BAIT APVMA Approval No. 80667

SECTION 1. IDENTIFICATION

Product name:	RATSHOT-G RODENTICIDE GRAIN BAIT APVMA Approval No.80667
Recommended Use:	Ready for use rodenticide containing 50ppm Difenacoum.
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:	EUH 208 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.

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<p>1,2-BENZISOTHIAZOL-3(2H)-ONE contains <0.02% CAS number: 2634-33-5 EC number: 220-120-9 M factor (Acute) = 10</p>	<p>Classification Acute Toxicity. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400</p>
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<p>2,2'-Iminodiethanol contains <0.1% CAS number: 111-42-2 EC number: 203-868-0</p>	<p>Classification Eye Dam. 1 - H318 STOT RE 2 - H373</p>
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<p>Difenacoum contains 0.005% CAS number: 56073-07-5 EC number: 259-978-4 M factor (Acute) = 1 M factor (Chronic) = 1</p>	<p>Classification Acute Tox. 2 - H300 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
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<p>Denatonium Benzoate contains 0.001% CAS number: 3734-33 EC number: 223-095-2</p>	<p>Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412</p>
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Full text for all hazard statements is contained in Section 16.

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

General information	Advice for Medical Doctors: Difenacoum is an indirect anti-coagulant. Phytomenadione, Vitamin K, is antidotal. Determine prothrombin time not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
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	Difenacoum is an indirect anti-coagulant. Phytomenadione, Vitamin K, is antidotal. Determine prothrombin time not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. 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 with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. DO NOT use water jet to extinguish fire, this will cause fire to spread.

Specific hazards arising from the chemical

Specific hazards None known.

Hazardous combustion products 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 Avoid discharge into drains or watercourses or onto the ground.

Clean up methods Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for handling Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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.

Storage precautions No specific recommendations.

Storage class Unspecified Storage

Specified end use Ready for use rodenticide containing 50 ppm Difenacoum. For indoor and outdoor use.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

propane-1,2-diol (Propane-1,2-diol particulates)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -
propane-1,2-diol (Propane-1,2-diol total vapour and particulates)	WEL 8-hr limit ppm: 150 WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 474 WEL 15 min limit mg/m3: -
Whole Wheat Grain	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m3: 10 (grain dust) WEL 15 min limit mg/m3: 30 (grain dust)

Exposure controls

Appropriate engineering controls No specific ventilation requirements.

Eye/face protection No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene measures Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Wheat pellets
Colour	Blue
Odour	Aniseed
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	0.65 – 0.75
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	Does not decompose when used and stored as recommended. 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 - dermalNotes (dermal LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - inhalationNotes (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 pellet 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

Difenacoum: Acute Oral (Rat) Category 2 from CLP. Denatonium Benzoate: Oral (Rat) LD50 = 584 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Toxic to mammals, including domesticated animals, and birds if ingested. Exposure to non-target animals should be prevented. Difenacoum: Daphnia EC50/48Hr = 0.91 mg/l, Rainbow trout LC50/96hr = 0.33 mg/l
Toxicity	Based on available data the classification criteria are not met.
Persistence and degradability	No data available.
Partition coefficient	No information 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 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. Dispose of Contaminated packaging as unused product unless fully cleaned.

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	Not applicable.

of MARPOL and the IBC Code

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> <p>Dangerous Substances Directive 67/548/EEC.</p>
Chemical safety assessment	No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

Revision date	02/12/16
Revision	2
Supersedes date	September 2015
Complete hazard statements	<p>H300 Fatal if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H372 Causes damage to organs (Blood) through prolonged or repeated exposure.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>

H412 Harmful to aquatic life with long lasting effects.

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.