



## SAFETY DATA SHEET

RATSHOT FINAL KILL PASTE RODENTICIDE APVMA Approval No. 69210

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Ready for use Rodenticide containing 50ppm Brodifacoum.

Uses advised against No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

Supplier 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

Emergency telephone Craig Jephcott 0412 200 252  
Poisons Information Centre 13 11 26

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

#### 2.2. Label elements

Hazard statements Not Classified

Precautionary statement

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.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves [Professional users].  
 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.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

3.2. Mixtures

2,2'-Iminodiethanol		<0.1%
CAS number: 111-42-2	EC number: 203-868-0	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373		
BRODIFACOUM (RoW)		0.01%
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 Acute Tox. 1 - H330 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

Denatonium Benzoate	0.0%
CAS number: 3734-33-6	EC number: 223-095-2
Classification	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

**SECTION 4: First aid measures**4.1. Description of 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 Medical Doctors: Brodifacoum is an indirect anti-coagulant. Phytomenadione, Vitamin K, is antidotal. Determin 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	Due to the physical nature of this product, exposure by this route is unlikely. IF INHALED: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.
Skin contact	May cause irritation to susceptible persons. Immediately take off all contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	May cause eye irritation to susceptible persons. Rinse immediately with plenty of water and seek medical advice.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Unlikely to present an inhalation hazard. If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.
Skin contact	May cause irritation.
Eye contact	May be slightly irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed**SECTION 5: Firefighting measures**

Notes for the doctor            Treat symptomatically.

5.1. Extinguishing media

Suitable extinguishing media    The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing        media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances:  
Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting 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.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. 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. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Usage precautions As the product is a paste it is unlikely to produce dust. 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.

Advice on general occupational hygiene      Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Wash after use and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions      Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage. Keep away from oxidising materials, heat and flames.

Storage class      Unspecified storage.

7.3. Specific end use(s)

Specific end use(s)      The identified uses for this product are detailed in Section 1.2.

Usage description      Ready to use rodenticide containing 50 ppm Brodifacoum.

**SECTION 8: Exposure controls/Personal protection**

8.1. Control parameters

Occupational exposure limits

Propane-1,2-diol (Propane-1,2-diol Particulates)      WEL 8-Hr limit mg/M3: 10  
 Propane-1,2-diol (Propane-1,2-diol total vapour and particulates)      WEL 8-Hr limit ppm: 150  
    WEL 8Hr limit mg/M3: 474  
 Flour WEL 8-Hr limit mg/M3: 10 WEL 15 min limit mg/M3: 30

8.2. Exposure controls

Appropriate engineering controls      Provide adequate ventilation.

Personal protection      Keep away from food stuffs.

Eye/face protection      Avoid contact with eyes.

Hand protection      Suitable chemical resistant gloves are recommended for professional users.

Other skin and body protection      Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Hygiene measures      Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Respiratory protection      Provide adequate ventilation.

Environmental exposure controls      Keep container tightly sealed when not in use. Avoid release to the environment.

**SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Red.
Odour	Characteristic.
Odour threshold	No information available.
pH	No information available.
Melting point	Not relevant.
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	Not relevant.
Vapour density	Not relevant.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	Not relevant.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not oxidising.

9.2. Other information

**SECTION 10: Stability and reactivity**10.1. Reactivity

Reactivity                                There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability                                    Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions    No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid                        There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid                         Keep away from oxidising materials, heat and flames.

10.6. Hazardous decomposition products

Hazardous decomposition products    Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

**SECTION 11: Toxicological information**11.1. Information on toxicological effects

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

Acute toxicity - oral

Notes (oral LD<sub>50</sub>)                            >2000 mg/kg

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>)                         >2000 mg/kg

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>)                     >5 mg/l (Dust)

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 - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

General information No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion See section 4 - First Aid

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Toxicity of ingredients Denatonium Benzoate:  
 LD50 Oral (Rat) = 584 mg/kg  
 LC50 (Rat) 4h: >8.7 mg/l Brodifacoum Acute Oral ≤5mg/kg Acute Dermal ≤50mg/kg  
 Acute Inhalation ≤0.05mg/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.

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not relevant.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects Toxic to mammals, including domesticated animals and birds if ingested. Exposure of non-target animals should be prevented.

Toxicity of ingredients Brodifacoum Daphnia EC50/48Hr = 0.25 mg/l Rainbow trout LC50/96Hr = 0.042 mg/l

**SECTION 13: Disposal considerations**13.1. Waste treatment methods

General information	This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of in accordance with applicable regional, national, and local laws and regulations. Dispose of Contaminated packaging as unused product unless fully cleaned.
Waste class	Waste disposal key number from EWC is 20 01 19 (Pesticides)

**SECTION 14: Transport information**

General                                      The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to    Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

**SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Health and Safety at Work etc. Act 1974 (as amended).  
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment  
 Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
 EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

**SECTION 16: Other information**

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC<sub>50</sub>: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

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Revision 4  
Supersedes date 01/12/2016

Hazard statements in full  
H300 Fatal if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
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.

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.