



International

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) No. 1907/2006
Brigand Difenacoum Whole Wheat Bait

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Revision 3
Revision date 05-Oct-2011

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Brigand Difenacoum Whole Wheat Bait
Company PelGar International Ltd
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Newman Lane, Alton
Hampshire GU34 2QR
e-mail address philip@pelgar.co.uk
www.pelgar.co.uk
Telephone Tel +44 (0) 1420 80744
Fax Fax +44 (0) 1420 80733
Emergency telephone number Tel +44 (0) 1420 80744
Intended use Ready for use rodenticide containing 50 ppm difenacoum.

2 HAZARDS IDENTIFICATION.

Labelling to Directive 1999/45 EC The preparation is non-dangerous in accordance with Directive 1999/45/EC.

Safety phrases To avoid risks to man and the environment, comply with the instructions for use.
S1/2 - Keep locked up and out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S46 - If Swallowed, seek medical advice immediately and show this container or label.

Other hazards Unlikely to cause harmful effects under normal conditions of handling and use. Harmful to Wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases EEC 67/548
Denatonium benzoate	0.001%	3734-33-6	223-095-2	Xn;R20 Xn;R22 Xi;R37 Xi;R38 Xi;R41 R52/53
propane-1,2-diol (Propane-1,2-diol particulates)	1-10%	57-55-6	200-338-0	
Whole Wheat Grain	90-100%			
Difenacoum	0.005%	56073-07-5	259-978-4	T+; R28 T; R48/25 N; R50/53
1,2-Benzisothiazolin-3-one	<0.02%	2634-33-5	220-120-9	Xn; R22 Xi; R38-41 R43 N; R50

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4. FIRST AID MEASURES

Skin contact	May cause skin irritation in susceptible persons. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention.
Eye contact	Contaminated clothing should be washed and dried before re-use. May cause eye irritation of susceptible persons. Rinse immediately with plenty of water and seek medical advice if irritation persists.
Inhalation	Unlikely to present an inhalation hazard unless excessive dust is present. Move the exposed person to fresh air. Obtain medical advice immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.
General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure. If there is no active bleeding the INR (prothrombin time) should be measured on presentation and 48-72 hours after exposure. If the INR is greater than 4, administer Vitamin K1 (phytomenadione) 5-10 mg by slow intravenous injection (100 µ g/kg body weight for a child). Treatment with phytomenadione (orally or intravenously) may be required for several weeks. The advice of the National Poisons Information Service (http://www.npis.org/) should be sought, particularly if active bleeding occurs.

5. FIRE FIGHTING MEASURES

Extinguishing media	Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO ₂) Alcohol resistant foam. Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions. Do not use water jets.
Protective equipment	In the event of fire. Wear: Self-contained breathing apparatus. Suitable gloves and boots.

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	Clean up promptly by sweeping or vacuum. Transfer to a suitably labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Avoid formation of dust. 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 much dust as the product is a low dust whole wheat grain.
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.
Specific use	Ready for use rodenticide containing 50ppm difenacoum.

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8. EXPOSURE CONTROLS / 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)

Respiratory protection Wear suitable respiratory protective equipment (disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent) when decanting the product.

Hand protection Impervious gloves recommended.

Eye protection Not required under normal conditions of handling. Tight fitting goggles if exposed to excessive dust.

Protective equipment Impervious clothing. Boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Granules.
Colour	Blue
Odour	Aniseed.
Relative density	0.65 - 0.75 (Bulk Density)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidising agents.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Difenacoum	Oral Rat LD50 = 1.8 mg/kg Dermal Rat LD50 = 51.5 - 63 mg/kg Inhalation Rat LC50/4 h = 16.27-20.74 µg/l
Denatonium benzoate	Oral Rat LD50 = 749 mg/kg Inhalation Rat LC50/4 h = 0.2 mg/l
propane-1,2-diol	Oral Rat LD50 = >2000 mg/kg

Acute toxicity ORL RAT LD50 approx 30g/kg (calculated).

Corrosivity No irritation expected.

Sensitization Grain dust is a respiratory sensitiser causing asthma. As the product is a low dust whole wheat grain, it is unlikely to create sufficient dust to cause any problems.

Mutagenic effects No evidence to suggest anticoagulant rodenticides are mutagenic.

Carcinogenic effects No evidence to suggest anticoagulant rodenticides are carcinogenic.

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12. ECOLOGICAL INFORMATION

Ecotoxicity	As the product contains 50ppm difenacoum , unlikely to be hazardous to aquatic life.
Difenacoum	Algae EC50/72h = 0.51mg/l Daphnia LC50/48h = 0.91 mg/l Rainbow trout LC50/96h = 0.33 mg/l
propane-1,2-diol	Daphnia EC50/48h = 4850 mg/l Fish LC50/96h = 4600 mg/l

Further information Harmful to wildlife. Read all precautions before use.

13. DISPOSAL CONSIDERATIONS

General information Dispose of as hazardous waste in compliance with all local and national regulations.
Hazardous Waste Code 20 01 19

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

14. TRANSPORT INFORMATION

Further information Not classified as dangerous for transport.

15. REGULATORY INFORMATION

Labelling The product is classified as non hazardous and is labelled in accordance with Biocides Directive 98/8 EEC.

Read the label before use.

Use only as described on the label

Safety, Health and Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and
Regulation (EC) 453/2010.

Environmental Regulations Biocides Directive 98/8 EEC.

16. OTHER INFORMATION

Text of risk phrases in R20 - Harmful by inhalation. R22 - Harmful if swallowed.

Section 3. R/28 - Very toxic if swallowed. R37 - Irritating to respiratory system. R38 - Irritating to skin.
R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact.
R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted use Ready for use rodenticide containing 50 ppm difenacoum.

Further information Approved under the Biocides Directive 98/8 EEC. Authorisation Number: UK-2011-0112

Data sources Raw material suppliers Safety Data Sheets. CHIP 2009 EH40

Revision This document differs from the previous version in the following areas:

2 – Hazards identification; 3 - hazardous ingredients 4 – First Aid Measures

8 – Respiratory Protection, Hand Protection.

9 – Bulk Density 11- Toxicological Information,

12 – Ecological Information, 13 – Disposal Considerations

15 – Regulatory Information; 16 – Text of risk phrases in section 3