



SAFETY DATA SHEET

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Brigand Bromadiolone (HSE No.:8277)

Revision 1
Revision date 25-Jun-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Brigand Bromadiolone
Company PelGar International Ltd
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Telephone Tel +44 (0) 1420 80744
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Emergency telephone number Tel +44 (0) 1420 80744
Product code 707.
Intended use Ready for use rodenticide containing 50ppm bromadiolone.

2 HAZARDS IDENTIFICATION.

Main hazards The preparation is non-dangerous in accordance with Directive 1999/45/EC. Contains chloracetamide, may produce an allergic reaction. 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
propane-1,2-diol	1-10%	57-55-6	200-338-0	
Whole Wheat Grain	90-100%			
Bromadiolone	0-005%	28772-56-7	249-205-9	T+; R27/28 T; R48/24/25 R50/53
2-Chloracetamide	0-0.1%	79-07-2	201-174-2	Repr Cat 3; R62 T; R25 R43

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4. FIRST AID MEASURES

Skin contact	May cause irritation to skin. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention. Contaminated clothing should be washed and dried before re-use.
Eye contact	May cause irritation to eyes. Seek medical attention if irritation or symptoms persist. Wash with water.
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: Bromadiolone is an indirect anti-coagulant. Phytomenadione, Vitamin K1, 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.

5. FIRE FIGHTING MEASURES

Extinguishing media	Keep 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. Do not use Water jets
Protective equipment	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 spillage if safe to do so.
Clean up methods	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. Contains chloracetamide, may produce an allergic reaction. 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 bromadiolone.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	Red.
Odour	Characteristic.

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

Bromadiolone	Dermal Rat LD50 = 23 mg/kg Oral Rat LD50 = < 5mg/kg
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Acute toxicity	ORL RAT LD50 approx. 30 g/kg (calculated).
Corrosivity	No irritation expected.
Sensitization	Grain dust is a respiratory sensitizer causing asthma. As the product is a low dust whole wheat grain, it is unlikely to create sufficient dust to cause any problems. Contains chloracetamide, may produce an allergic reaction.
Mutagenic effects	No evidence to suggest anticoagulant rodenticides are mutagenic.
Carcinogenic effects	No evidence to suggest anticoagulant rodenticides are carcinogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity	As the product contains 50ppm bromadiolone, unlikely to be hazardous to aquatic life.
Bromadiolone	Daphnia LC50/48h = 5.79 mg/l Rainbow trout LC50/96h = 2.89 mg/l

Further information	Harmful to wildlife. Read all precautions before use. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label. If soil contamination occurs, the product will not be taken up by plants. This product is of low water solubility and has very low mobility in soil; it presents a negligible risk to groundwater. Low - level residues of rodenticides have been detected in a wide range of wildlife species. Proper use of products in accordance with the label will help to minimise the exposure of wildlife to rodenticides.
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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Empty containers can be sent to landfill if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Further information	Not classified as dangerous for transport.
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15. REGULATORY INFORMATION

Labelling	Covered by the Control of Pesticides Regulations (1986). It has been labelled in accordance with those regulations.
Safety phrases	P14 - Safety data sheet available for professional user on request.
Statutory Conditions relating to use	The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. Avoid all contact by mouth. Prevent access to bait by children, birds and non-target animals, particularly dogs, cats, pigs and poultry. Do not place bait where food, feed, or water could become contaminated (except when used in sewers). Search for and remove rodent bodies at frequent intervals during treatment, ideally at each bait inspection, (unless used in sewers). Collect and dispose of the remains of bait and any remaining rodent bodies after treatment (unless used in sewers). You must ensure that you comply with legislation regarding the correct disposal of waste. For further guidance contact the Environmental Agency or your local Scottish Environmental Protection Agency (SEPA) office. Harmful to wildlife. READ ALL PRECAUTIONS BEFORE USE.

16. OTHER INFORMATION

Text of risk phrases in Section 3.	R25 - Toxic if swallowed. R27/28 - Very toxic in contact with skin and if swallowed. R43 - May cause sensitisation by skin contact. R48/24/25 - Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Restricted use	Ready for use rodenticide containing 50ppm bromadiolone.
Data sources	Raw material suppliers Safety Data Sheets. CHIP 2002 EH40