

Safety Data Sheet
Brigand Bromadiolone whole wheat bait



International

This version issued: May 2015

1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Brigand Bromadiolone whole wheat bait

Relevant identified uses of the substance or mixture

Relevant identified uses: Ready for use Rodenticide containing 50ppm Bromadiolone.

The supplier of the safety data sheet is PelGar International Ltd

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2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Not Hazardous

Labelling to Regulation EC 1272/2008

None Required

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Hazard Statements

H-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.

Precautionary Statements

P-Statements	
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 + P405	Store in a closed container. Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

Chemical nature

Biocidal product

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3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008

Bromadiolone	
Content (W/W): 0.005 % CAS Number: 28772-56-7 EC-No. 249-205-9	Acute toxicity, (Oral), Cat 1 Acute toxicity, (Dermal), Cat 1 STOT RE, Cat 1 Aquatic Acute Toxicity, Cat 1 Aquatic Chronic Toxicity (Cat 1) H300, H310, H372, H400, H410

Denatonium Benzoate	
Content (W/W): 0.001 % CAS Number: 3734-33-6 EC No. 223-095-2	Acute Toxic, (Oral), Cat 4 Acute Toxic, (Inhalation), Cat 4 Skin Irritant, Cat 2 Eye Damage, Cat 2 Aquatic Chronic, Cat 3 H302, H332, H315, H319, H412

2, 2'-Iminodiethanol	
Content (W/W): < 0.1 % CAS Number: 111-42-2 EC No. 203-868-0	STOT RE, Cat 2 Eye Damage, Cat 1 H373, H318

1,2-Benzisothiazolin-3-one	
Content (W/W): <0.02 % CAS Number: 2634-33-5 EC No. 220-120-9	Acute Toxic, Cat 4 Skin Irritant, Cat 2 Eye Damage, Cat 1 Skin Sensitizer Cat 1 H317 Aquatic Acute, Cat 1 H302, H315, H318, H400

4 – FIRST-AID MEASURES

Description of first aid measures

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible). **Advice for Medical Doctors:** Bromadiolone 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

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prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

After inhalation: Unlikely to present an inhalation hazard. If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice.

After skin contact: May cause skin irritation in susceptible people. Immediately take off all contaminated clothing. Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.

After eye contact: May cause eye irritation in susceptible people. Rinse opened eye for several minutes under running water. If irritation persists consult a doctor.

After swallowing:

Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

5 – FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Keep fire exposed containers cool by spraying with water. Appropriate fire extinguishers are CO₂, Powder or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions. Do not use water jets to extinguish the fire.

Special hazards arising from the substance or mixture: Formation of toxic gases may occur if heated such as carbon oxides, nitrogen oxides and hydrogen chloride gas.

Protective equipment: Wear self-contained respiratory protective device. A chemical protection suit and suitable gloves and boots should be worn.

6 – ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent leakage or spillage if safe to do so.

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Methods and material for containment and cleaning up: Clean up promptly by sweeping or vacuuming. Transfer to a suitably labelled container.

Subsequently wash the contaminated area with water taking care to prevent washings entering sewers or drains.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 – HANDLING AND STORAGE

Handling

Precautions for safe handling: Avoid contact with skin and eyes and avoid inhalation of dust. Keep away from sources of ignition – No smoking, eating or drinking while handling this product. Unlikely to produce considerable dust as the product is a low dust whole wheat grain. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Read the label before use.

Conditions for safe Storage including incompatibilities

Store in a cool, dry location. Keep out of reach of children. Store only in the original receptacle. Keep away from sources of heat. Store away from foodstuffs. Keep away from oxidizing agents.

Protection against fire and explosion:

Keep away from heat sources as the product is combustible. The product is not explosive. Keep away from oxidizing agents.

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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)

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.

Exposure controls

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Hand protection:

Suitable chemical resistant gloves are recommended for professional users.

Eye protection:

Not required under normal conditions of handling and use. However if excessive dust is present then tight fitting goggles should be worn.

Body protection:

Body protection must be chosen depending on activity and possible exposure, for example apron, closed work clothing, protecting boots.

General safety and hygiene measures:

Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.

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9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Whole Wheat granules

Colour: Red

Odour: Aniseed

Relative Density: 1.27

Flammability limits: Combustible

10 – STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions.

Chemical stability

Stable under normal conditions. Not explosive or oxidising.

Thermal decomposition / conditions to be avoided: The formation of toxic/irritant gases/vapours may occur if heated.

Possibility of hazardous reactions: Keep away from oxidising agents.

Conditions to avoid: Heat, sparks and open flames.

11 – TOXICOLOGICAL INFORMATION

Denatonium Benzoate Oral Rat LD50 = 584 mg/kg

Bromadiolone Oral Rat LD50 = 1.31 mg/kg

 Dermal Rat LD50 = 23 mg/kg

Skin corrosion/irritation

Should not cause skin irritation at the dilution of the product.

Serious eye damage/eye irritation

Should not cause eye irritation at the dilution of the product.

Respiratory or skin sensitization

Should not cause sensitization. However, grain dust is a respiratory sensitizer which can cause asthma. As the product is a low dust whole wheat grain it is unlikely to create sufficient dust to cause problems.

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Germ cell mutagenicity

No evidence to suggest that anticoagulant rodenticides are mutagenic.

Carcinogenicity

No evidence to suggest that anticoagulant rodenticides are carcinogenic.

12 – ECOLOGICAL INFORMATION

As the product only contains 50ppm of Bromadiolone it is unlikely to be hazardous to aquatic life.

Bromadiolone	Daphnia EC50/48Hr = 5.79 mg/l
	Rainbow trout LC50/96hr = 2.89 mg/l

Ecological information:

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

13 – DISPOSAL CONSIDERATIONS

Waste treatment - Recommendation

Dispose of in accordance with national and local regulations.

European waste catalogue

The waste disposal key number from EWC is 20 01 19 (pesticides)

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

14– TRANSPORT INFORMATION

Not Dangerous Goods

ADR/RID

Not restricted for transport.

IMDG

Not restricted for transport.

IATA/ICAO

Not restricted for transport.

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15– REGULATORY INFORMATION

To avoid risks to man and the environment, comply with the instructions for use.
This information should be considered when making any hazard assessment.

Classification and labelling according to Regulation:

(EC) No 1272/2008 [EU-GHS/CLP]

16– OTHER INFORMATION

This Safety Data Sheet replaces all previous versions. For proper and safe use of this product, please refer to the product label.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

STOT: Specific Target Organ Toxicity

WHO: World Health Organisation

EU: European Union

PBT: Persistent, Bioaccumulative and Toxic

vPvT: very Persistent and very Bioaccumulative

SEVESO: The main piece of EU legislation that deals specifically with the control of on-shore major accident hazards involving dangerous substances.

H Phrase: Hazard phrase

EUH Phrase: A hazard phrase only used in Europe

P Phrase: Precautionary phrase

Exclusion of liability:

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