

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

ABN 44 101 170 923

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Classified as non-hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Surefire BROMA GRAIN BAIT
Product Code: none
Product Use: rodenticide for use as described on the product label
Poison Schedule: S6
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055

Emergency telephone No: 1800 630 877

Other Information: This MSDS describes, to the best of our knowledge, the properties of the product and has been obtained from sources believed to be reliable. The user is responsible to ensure that they have all current data relevant to their particular use.

MSDS Creation Date: 21st November, 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: dry grain-based rodenticide

Ingredients	CAS NO.	Concentration
Bromadiolone	28772-56-7	0.005%
Other food grade ingredients not considered to be hazardous		to 100%

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3. HAZARDS IDENTIFICATION

Emergency Overview Non-Hazardous substance ; Non-dangerous goods

Physical Appearance

Form: loose grain particles
Colour: green
Odour: Characteristic sweet seed odour
Water Solubility: Insoluble

Potential Health Effects

Eyes: Slightly irritating to the eyes
Skin: Unlikely
Ingestion: Ingestion of large quantities of the product may cause nausea, vomiting, thirst, bleeding gums, increased tendency to bruise, and excessive bleeding from minor cuts and abrasions.
Inhalation: Being a solid formulation, inhalation is not considered to be a likely source of exposure to this product. However, care should be taken to avoid breathing any dust which may be present in packaging.

Primary Routes of Entry:

Entry: Ingestion
Target Organs: Digestive System
Carcinogenicity: Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen

4. FIRST AID MEASURES

Eyes: Flush eye(s) for 15 minutes or more with running water- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.
Skin: Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.
Ingestion: Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.
Inhalation: Unlikely to cause problems being a solid block formulation.
First Aid Facilities: If poisoning occurs, contact a doctor or Poisons Information Centre on **13 11 26** (Australia).

Information for doctor:

Administer Vitamin K intramuscularly or orally for several weeks with regular monitoring of the coagulation parameters and prothrombin times. Symptoms include anaemia, excessive bleeding from minor cuts, nose & gum bleeding.

5. FIRE-FIGHTING MEASURES

Flash Point: Not determined.
Autoignition Temperature: Not applicable.
Upper Explosion Limits: Not applicable.
Lower Explosion Limits: Not applicable.
Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray,
By-products in case of Fire: In the event of a fire the following can be released:
- oxide of carbon & smoke.
Further Information: Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.

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Special Protective

Equipment for Firefighters: As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained, then preferably swept up and be placed in sealable, labeled, drums for reuse or safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. Do not burn empty containers or product. Decontaminate the spill area with detergent and water.

7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

Advice on protection against fire and explosion:

Not flammable- no special measures required.

Storage information: This product should be stored in tightly sealed original containers in a dry, secure place away from fertilizers, seed, feed and food. Store out of direct sunlight. Ensure product remains out of reach of children, unauthorized persons and animals. Containers used to store this product should not be used for any other purpose.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General protective

Measures: Avoid contact with eyes and skin

Hygiene Measures: No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.

Respiratory

Protection: Not required

Hand Protection: Elbow length PVC gloves should be worn when using this product.

Eye Protection: Not required.

Protective clothing; Not required.

Engineering Controls: No requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description: Green grain particles.

Odour: Sweet seed odour.

Specific Gravity: n/a

Water Solubility: n/a

Volatility: n/a

Melting Point: not applicable.

Evaporation Rate: n/a

Boiling temperature: not applicable

Viscosity, dynamic: not applicable

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10. STABILITY AND REACTIVITY

Reactivity:	None known. Product is stable if stored in the original container.
Conditions to Avoid:	Strongly alkaline materials.
Incompatibilities:	Strongly alkaline materials.
Fire Decomposition:	Oxides of Carbon.
Polymerisation:	Will not occur under normal conditions of storage and use.
Stability:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Toxicity:	Tests on rats show this product is very toxic following a single dose of the active ingredient.
Chronic Toxicity:	This product accumulates in body tissues, and has a long half-life (150 to 200 days). There is a risk of accumulation of repeated small doses over a long period of exposure leading to toxic levels within the body.
Reproductive Effects:	No evidence in mammals.
Teratogenic Effects:	No evidence in mammals.
Mutagenic Effects:	No evidence in mammals.
Carcinogenic Effects:	No evidence in mammals.
Carcinogenic status:	This product is not considered to be a carcinogen.
Animal Toxicity Data:	LD ₅₀ rat (oral) 1.12 mg/kg bw LD ₅₀ mouse (oral) 1.75 mg/kg bw

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:													
Effects on Birds:	Bromadiolone is very toxic to birds and other wildlife. <table><tr><td>Species</td><td>acute oral LD₅₀</td><td>LC₅₀ feeding</td></tr><tr><td>Mallard Ducks (21day observ.)</td><td></td><td>1000ppm</td></tr><tr><td>Japanese quail (14 day observ.)</td><td>1600</td><td>464ppm</td></tr></table>	Species	acute oral LD ₅₀	LC ₅₀ feeding	Mallard Ducks (21day observ.)		1000ppm	Japanese quail (14 day observ.)	1600	464ppm			
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Japanese quail (14 day observ.)	1600	464ppm											
Effects on Aquatic Organisms:	Bromadiolone is very toxic to aquatic organisms. Do not contaminate waterways with the product. 96-hour exposure resulted in the following LC ₅₀ values: <table><tr><td>Species</td><td>LC₅₀</td><td>mg/l</td></tr><tr><td>Rainbow trout</td><td>1.4 mg/L</td><td>(96h)</td></tr><tr><td>Bluegill</td><td>3.0 mg/L</td><td>(96h)</td></tr><tr><td>Daphnea magna 48h (EC₅₀)</td><td>0.0017</td><td></td></tr></table>	Species	LC ₅₀	mg/l	Rainbow trout	1.4 mg/L	(96h)	Bluegill	3.0 mg/L	(96h)	Daphnea magna 48h (EC ₅₀)	0.0017	
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Environmental Persistence & Degradation:	Bromadiolone is not expected to volatilize from dry soil surfaces (SRC) based upon a vapor pressure of 1.5×10^{-8} mm Hg. Bromadiolone is not persistent in soil under aerobic conditions (half-life 14 days), and can generally be considered immobile except in soils of low organic matter and clay, such as sand.												

13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.	
Product Disposal:	In accordance with local authority regulations, take to special waste incineration plant.

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Container Disposal: Dispose of empty, used containers in a disposal pit away from desirable plants and their roots and from watercourses. If recycling, return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: n/a
Proper Shipping Name: n/a
Class and Subsidiary Risk: n/a
Packing Group: n/a
Hazchem Code: n/a

Storage and Transport: Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

APVMA Approval No: 67142/55303
Risk Phrases: none allocated.
Safety Phrases: none allocated
Poisons Schedule: S6
Packaging & Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category
AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

This MSDS contains only safety-related information. For other data, see product literature.

Any advice, recommendation, information, assistance or service provided by PCT International Pty Ltd in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer for any liability or responsibility on the part of PCT International Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and when implied by statute, common law, custom of the trade or otherwise, are to the extent that the law permits, expressly excluded.

...End of MSDS...