

# MATERIAL SAFETY DATA SHEET



## PCT International Pty Ltd

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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 Blocks Rodenticide  
**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 1 / 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:** 31<sup>st</sup> January, 2011

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Formulation Type:** Wax-based extruded block

Ingredients	CAS NO.	Concentration
Bromadiolone	28772-56-7	0.005%
Bitrex (bittering agent)	3734-33-6	<1%
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:** Wax blocks  
**Colour:** Blue  
**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:

**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:** > 100°C.  
**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<sup>mm</sup> 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:** Blue wax blocks.

**Odour:** Sweet seed odour.

**Specific Gravity:** n/a

**Water Solubility:** n/a

**Volatility:** n/a

**Melting Point:** >45°C

**Evaporation Rate:** n/a

**Boiling temperature:** not measured

**Viscosity, dynamic:** not measured

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## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicity:</b>	Tests on rats show this product is very toxic following a single dose of the active ingredient.
<b>Chronic Toxicity:</b>	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.
<b>Reproductive Effects:</b>	No evidence in mammals.
<b>Teratogenic Effects:</b>	No evidence in mammals.
<b>Mutagenic Effects:</b>	No evidence in mammals.
<b>Carcinogenic Effects:</b>	No evidence in mammals.
<b>Carcinogenic status:</b>	This product is not considered to be a carcinogen.
<b>Animal Toxicity Data:</b>	LD <sub>50</sub> rat (oral) 1.12 mg/kg bw LD <sub>50</sub> mouse (oral) 1.75 mg/kg bw

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	
<b>Effects on Birds:</b>	Bromadiolone is very toxic to birds and other wildlife. Species acute oral LD <sub>50</sub> LC <sub>50</sub> feeding Mallard Ducks (21day observ.) 1000ppm Japanese quail (14 day observ.) 1600 464ppm
<b>Effects on Aquatic Organisms:</b>	Bromadiolone is very toxic to aquatic organisms. Do not contaminate waterways with the product. 96-hour exposure resulted in the following LC <sub>50</sub> values: Species LC <sub>50</sub> mg/l Rainbow trout 1.4 mg/L (96h) Bluegill 3.0 mg/L (96h) Daphnea magna 48h (EC <sub>50</sub> ) 0.0017
<b>Environmental Persistence &amp; Degradation:</b>	Bromadiolone is not expected to volatilize from dry soil surfaces (SRC) based upon a vapor pressure of $1.5 \times 10^{-8}$ 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

<b>ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.</b>	
<b>Product Disposal:</b>	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<sup>mm</sup> 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:** 64849/0210  
**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.**

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...End of MSDS...