

## Section 1 - Identification of the Material and Supplier

**PCT Holdings Pty Ltd**  
**1/74 Murdoch Circuit**  
**Acacia Ridge QLD 4110 AUSTRALIA**

**Phone: 1800 630 877**

**Chemical nature:** Bromadiolone (an anticoagulant) in a wax based extruded block.

**Trade Name:** **SureFire Broma Blocks Rodenticide**

**APVMA Code:** 64849

**Product Use:** Rodenticide for use as described on the product label.

**Creation Date:** **September, 2015**

**This version issued:** **September, 2015** and is valid for 5 years from this date.

**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

**Risk Phrases:** R33, R21/22, R52. Danger of cumulative effects. Harmful in contact with skin and if swallowed. Harmful to aquatic organisms.

**Safety Phrases:** S2, S20, S22, S37, S45, S24/25. Keep out of reach of children. When using, do not eat or drink. Do not breathe dust. Wear suitable gloves. In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show this SDS where possible). Avoid contact with skin and eyes.

**SUSMP Classification:** S6

**ADG Classification:** None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

**UN Number:** None allocated



### GHS Signal word: WARNING

#### HAZARD STATEMENT:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H373: May cause damage to organs through prolonged or repeated exposure.

H402: Harmful to aquatic life.

#### PREVENTION

P102: Keep out of reach of children.

P260: Do not breathe dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P281: Use personal protective equipment as required.

#### RESPONSE

P314: Get medical advice or attention if you feel unwell.

P322: Specific measures; Vitamin K is antidotal.

P330: Rinse mouth.

P352: Wash with plenty of soap and water.

P363: Wash contaminated clothing before reuse.

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

#### STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

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P403+P235: Store in a well-ventilated place. Keep cool.

**DISPOSAL**

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

### Emergency Overview

**Physical Description & Colour:** Blue wax blocks.

**Odour:** Sweet seed odour.

**Major Health Hazards:** danger of cumulative effects, harmful in contact with skin, and if swallowed.

### Section 3 - Composition/Information on Ingredients

| Ingredients                     | CAS No     | Conc,%   | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------------------|------------|----------|--------------------------|---------------------------|
| Bromadiolone                    | 28772-56-7 | 0.05g/kg | not set                  | not set                   |
| Bitrex                          | 3734-33-6  | <1       | not set                  | not set                   |
| Other non hazardous ingredients | secret     | to 100   | not set                  | not set                   |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### Section 4 - First Aid Measures

**General Information:****Vitamin K is antidotal.**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

**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.

### Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** >100°C

**Upper Flammability Limit:** No data.

**Lower Flammability Limit:** No data.

**Autoignition temperature:** No data.

**Flammability Class:** No data.

### SAFETY DATA SHEET

## Section 6 - Accidental Release Measures

**Accidental release:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

## Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

| <b>SWA Exposure Limits</b>   | <b>TWA (mg/m<sup>3</sup>)</b> | <b>STEL (mg/m<sup>3</sup>)</b> |
|--|-------------------------------|--------------------------------|
| Exposure limits have not been established by SWA for any of the significant ingredients in this product. |                               |                                |

The ADI for Bromadiolone is set at 0.000002mg/kg/day. The corresponding NOEL is set at 0.004mg/kg/day.

The ADI for Bitrex is set at 0.0005mg/kg/day. The corresponding NOEL is set at 0.5mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

**Protective Material Types:** There is no specific recommendation for any particular protective material type.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

## Section 9 - Physical and Chemical Properties:

|   |   |
|---|---|
| <b>Physical Description &amp; colour:</b> | Blue wax blocks.  |
| <b>Odour:</b>                             | Sweet seed odour.                                       |
| <b>Boiling Point:</b>                     | No specific data. Expected to decompose before boiling. |
| <b>Freezing/Melting Point:</b>            | >45°C   |
| <b>Volatiles:</b>                         | No specific data. Expected to be low at 100°C.          |
| <b>Vapour Pressure:</b>                   | Negligible at normal ambient temperatures.              |
| <b>Vapour Density:</b>                    | Not applicable.   |
| <b>Specific Gravity:</b>                  | No data.  |
| <b>Water Solubility:</b>                  | Insoluble.  |
| <b>pH:</b>                                | No data.  |
| <b>Volatility:</b>                        | Negligible at normal ambient temperatures.              |
| <b>Odour Threshold:</b>                   | No data.  |
| <b>Evaporation Rate:</b>                  | Not applicable.   |
| <b>Coeff Oil/water Distribution:</b>      | No data   |
| <b>Viscosity:</b>                         | Not applicable.   |

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**Autoignition temp:** No data.

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong bases.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Bromine compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 - Toxicological Information

**Local Effects:**

**Target Organs:** There is no data to hand indicating any particular target organs.

## Potential Health Effects

**Inhalation:**

**Short Term Exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

**Long Term Exposure:** No data for health effects associated with long term inhalation.

**Skin Contact:**

**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

**Eye Contact:**

**Short Term Exposure:** This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

**Ingestion:**

**Short Term Exposure:** 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.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

**Chronic Toxicity:** This product accumulates in body tissues, and has a

**Toxicity:** Tests on rats show this product is very toxic following a single dose of the active ingredient. 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.

**The following is for Bromadiolone, the active ingredient in this product.**

**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<sub>50</sub> rat (oral) 1.12 mg/kg bw

LD<sub>50</sub> mouse (oral) 1.75 mg/kg bw

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## Section 12 - Ecological Information

This product is harmful to aquatic organisms. This product is not readily biodegradable.

**Effects on Birds:** 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                     | 1000ppm                  |
| 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<sub>50</sub> values:

| Species                                      | LC <sub>50</sub> mg/L |
|--|-----------------------|
| Rainbow trout (96h)                          | 1.4 mg/L              |
| Bluegill sunfish (96h)                       | 3.0 mg/L              |
| <i>Daphnia magna</i> 48h (EC <sub>50</sub> ) | 0.0017                |

**Environmental Persistence & Degradation:**

Bromadiolone is not expected to volatilize from dry soil surfaces (SRC) as it has a very low vapour pressure.

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.

## Section 13 - Disposal Considerations

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

## Section 14 - Transport Information

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

The following ingredients: Bromadiolone, Bitrex, are mentioned in the SUSMP.

## Section 16 - Other Information

**This SDS contains only safety-related information. For other data see product literature.**

### Acronyms:

|                     |   |
|---------------------|---|
| <b>ADG Code</b>     | Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)                     |
| <b>AICS</b>         | Australian Inventory of Chemical Substances   |
| <b>SWA</b>          | Safe Work Australia, formerly ASCC and NOHSC  |
| <b>CAS number</b>   | Chemical Abstracts Service Registry Number  |
| <b>Hazchem Code</b> | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| <b>IARC</b>         | International Agency for Research on Cancer   |
| <b>NOS</b>          | Not otherwise specified   |
| <b>NTP</b>          | National Toxicology Program (USA)   |
| <b>R-Phrase</b>     | Risk Phrase   |
| <b>SUSMP</b>        | Standard for the Uniform Scheduling of Medicines & Poisons  |
| <b>UN Number</b>    | United Nations Number   |

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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## SAFETY DATA SHEET