

MATERIAL SAFETY DATA SHEET

Section 1: Identification

Maki® Bulk Rodenticide Pellets

PCP No. 20258 (commercial)

Other designation: Anticoagulant rodenticide bait with bromadiolone

Manufacturer: Liphatech, Inc.
3600 W. Elm Street, Milwaukee, WI 53209 USA

Emergency phone: 414-351-1476 Monday - Friday 8:00 am - 4:30 pm CST

After hours: Call CHEMTREC at 1-800-424-9300

Section 2: Hazards Identification

Emergency overview: May be harmful or fatal if swallowed or absorbed through the skin, because this material may reduce the clotting ability of the blood and cause bleeding.

Acute effects (signs and symptoms of overexposure):

- **Eyes:** May cause temporary eye irritation.
- **Skin:** May be harmful if absorbed through skin. Symptoms of toxicity include lethargy, loss of appetite, reduced blood clotting ability and bleeding.
- **Inhalation:** Due to this product's solid form, inhalation is unlikely.
- **Ingestion:** May be harmful if swallowed. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.
- Chronic effects:** Prolonged and/or repeated exposure to small amounts of product can produce cumulative toxicity. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. May aggravate existing bleeding disorders.

Section 3: Ingredient Information

Hazardous Ingredient:	CAS Number:	Percent Concentration:	ACGIH TLV:	ACGIH STEL:
Bromadiolone	28772-56-7	0.005%	Not assigned	Not assigned

Section 4: First Aid Measures

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. For all cases of human ingestion, call a poison control centre or doctor immediately for treatment advice. If pet or livestock poisoning is suspected, immediately contact veterinarian.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control centre or doctor for treatment advice.
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Note to physician: Vitamin K₁ in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments. Any allergen contained in the product are listed on the front panel of the label.

Section 5: Fire-fighting Measures

Conditions of flammability: May burn at temperatures >190 °C. (375 °F.)

Extinguishing media: Use media suitable for the surrounding fire

Hazardous combustion products: Oxides of carbon

Firefighting instructions: Wear self-contained breathing apparatus (full face piece) and full protective clothing.

Section 6: Accidental Release Measures

Isolate and contain spill. Limit access to the spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters. Scoop up spilled material and place in a closed, labeled container for use or disposal.

Section 7: Handling and Storage

Handling precautions: Do not get in eyes, on skin, or on clothing. Wash arms, hands, and face with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Do not place bait in areas where there is a possibility of contaminating food or surfaces that come in direct contact with food.

Storage requirements: Store product not in use in original, tightly sealed container in a cool, dry, secure location inaccessible to children, pets, domestic animals or wildlife. Do not reuse empty container.

Section 8: Exposure Controls / Personal Protection

Personal protective equipment: Use gloves when handling product and disposing of dead rodents, unconsumed bait and empty containers. No respirator required when used according to label instructions. Never eat, drink or smoke in work areas. Practice good personal hygiene after using this product. Launder contaminated clothing separate from street clothes.

Engineering controls: Special ventilation is not required for the normal handling and use of this product when following the label instructions.

Re-entry intervals: Not established

Exposure limits or biological limit values: Not established.

Section 9: Physical and Chemical Properties

Physical state, appearance and odor: Solid pellets, green color, odor of raw grain. Odor threshold: Not determined

Specific gravity: 1.27 g/cc

Water solubility: Negligible

pH: Not applicable

% Volatile (Volume): Not applicable

Vapor density: Not applicable

Vapor Pressure: Not applicable

Boiling Point: Not applicable

Freezing Point: Not applicable

Partition coefficient (n-octanol/water): Not applicable

Flash point (ASTM D92): >190 °C.

Auto-ignition temperature: Not determined

Explosive limits lower limit: Not applicable, Upper limit: Not applicable

Sensitivity to mechanical shock or static discharge: Not applicable

Section 10: Stability and Reactivity

Conditions of chemical instability: None

Name of substance or class which is incompatible: None

Conditions of reactivity: None

Hazardous Products of decomposition: Oxides of carbon

Section 11: Toxicological Information

Route of entry, effects of exposure: See Section 2

Eye effects/eye irritation: Mild, transient irritant

Acute oral effects: LD₅₀ (oral-rat): >5000 mg/kg

Acute inhalation effects: LD₅₀ (rat, 4 hour): 8.6 mg/L (extrapolated)

Acute dermal effects: LD₅₀ (dermal-rabbit): >2000 mg/kg

Skin irritation: Non-irritating

Sensitization: Not a skin sensitizer or respiratory sensitizer

Carcinogenicity and mutagenicity: No

Teratogenicity and embryotoxicity: No

Reproductive toxicity: No

Section 12: Ecological Information

To reduce exposure of non-target birds and other wildlife to poisoned carcasses, dead rodents should be securely wrapped and placed in closed containers and disposed of at Provincial sites, where available, or at municipal landfill sites. Otherwise, securely wrap carcasses and bury to a depth that will make them inaccessible to scavengers.

Section 13: Disposal Considerations

Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

Section 14: Transport Information

This product is not regulated as a hazardous material for all modes of transportation within the U.S. and Canada.

Hazard class, packing group, UN number: Not applicable

Section 15: Regulatory Information

Read the entire product label before using this rodenticide. Carefully follow all cautions, directions and use restrictions on the label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

Section 16: Other Information

Prepared by: T. Schmit **Date:** 1 June 2013

This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.