



Material Safety Data Sheet

BRAT®

Preparation Date: 9/1/2002

Revisión: 0000

MSDS No. 0053

Product Identification

Product Name: BRAT®

Chemical Name: 3-[3-(4'-Bromo[1,1'biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one

Synonyms: Bromadiolone

Chemical Family: Hydroxycoumarin

Product Use: Rodenticide

TDG Classification: Not Regulated

Formulation : Bait blocks

Composition / Information on Ingredients

Ingredients (CAS #)		Percentage	Exposure Limits
Bromadiolone	13492-26-7	0.05%	
Inerts		99.95%	

Physical Data

Physical State: waxy block

Boiling Point: Not Applicable

% Volatiles: No Data

Appearance/Odour: Light pink meal with no odour.

Freezing/Melting Point: Not Applicable

Evaporation Rate: Not Applicable

Specific Gravity: 0.629 cc/mgr

Vapour Pressure: No Data

Solubility in Water: 12 mg/L

pH: No Data

Vapour Density: Not Applicable

Fire & Explosion Data

Flash Point: Not Applicable

Autoignition Temperature: No Data

Fire Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, Water Fog

Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Minimize amount of water used and contain the run-off by diking. **Other Fire or Explosion Hazards:** None known

Lower Explosion Limit %: Not Applicable

Upper Explosion Limit %: Not Applicable

Reactivity Hazard Data

Stability: Stable

Incompatibility (Materials to Avoid): Alkalies.

Conditions to Avoid: Exposure to UV light may cause this product to decompose. Extreme temperatures

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition Products: Carbon Dioxide and Carbon Monoxide..

Health Hazard Data

Acute Effects of Overexposure: None likely to occur under normal usage.

Bromadiolone is an anticoagulant which reduces the clotting ability of the blood and may cause bleeding in extreme cases.

Effects of Chronic Exposure: None known.

Other Health Effects: Main routes of entry are oral, inhalation and dermal. Notes to Physician - Monitor prothrombin times for 5 to 7 days. Intravenous and oral administration of Vitamin K 1 should be given if lab results indicate an effect on blood clotting times. If administration of Vitamin K1 is initiated on a daily basis, continue to monitor clotting times until the prothrombin times stabilize.

Toxicity Data:

LD50, ORAL (INGESTION): >5000 mg/kg (rats)

LC50, INHALATION: N/A

SKIN IRRITATION: None (rabbits)

LD50, DERMAL (SKIN CONTACT): > 2000 mg/kg (rats)

EYE IRRITATION: None (rabbits)

DERMAL SENSITIZATION: Not Considered a Sensitizer

Emergency and First Aid Procedures

Inhalation: Move victim to fresh air. Give Artificial Respiration ONLY if required. Give CPR if there is NO breathing and NO pulse. OBTAIN MEDICAL ADVICE.

Skin Contact: Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek medical attention.

Ingestion: Give 1 to 2 glasses of water (200 to 500 ml) to dilute material and cause vomiting by inserting a finger or blunt object down the throat. Syrup of IPECAC can also be used to induce vomiting. Lean victim forward with head down to avoid breathing vomitus. DO NOT induce vomiting or give anything by mouth to an unconscious person. OBTAIN MEDICAL ADVICE.

Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

NOTE TO PHYSICIAN:

If ingested, administer Vitamin K intramuscularly or orally as indicated by bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Special Protection Information

Respiratory Protection: None required under normal usage.

Eye Protection: Not required

Other Personal Protective Equipment: Coveralls

VENTILATION: Not required

OTHER PROTECTIVE MEASURES: Not required

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

HEALTH: 1 (Caution) **FIRE:** 0 (Will not burn) **REACTIVITY:** 0 (Stable)

SPECIFIC HAZARD: None

HAZARDOUS MATERIAL INFORMATION (HMIS) RATINGS:

HEALTH: 2 (Moderate) **FLAMMABILITY:** 0 (Minimal) **REACTIVITY:** 0 (Minimal) **PROTECTIVE**

EQUIPMENT: B

Storage Requirements: Store in cool, dry, ventilated area. Keep out of reach of children and pets.

Storage Temperature: Room temperature

Spill or Leak Procedures

Spill and Leak Procedures: Stop leak and contain spill. Sweep up spilled material and transfer into waste container for disposal. Clean area with detergent and water, absorb wash and place in waste container.

Remove any contaminated soil for proper disposal.

Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Special Precautions

Precautions to be Taken in Case Material is Handling and Storing: Store in original, sealed container in cool, ventilated area. Protect from freezing or overheating. Avoid open flames and sparks. Keep in secured area, away from children and unauthorized people.

Additional Regulatory Information

DOT Hazard Class: Not Regulated

Hazardous Substance: Not a hazardous substance

FREIGHT CLASSIFICATION: LTL Class 60

EPA SARA Title III Data: This product does not contain toxic chemicals listed on SARA Section 313 Community Right to Know or Toxic release Inventory. All components of this product are listed on the TSCA inventory.

Other Information

Prepared by:

Revision Notes :

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