
MATERIAL SAFETY DATA SHEET

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Section I

Supplier Information:	Emergency Telephone Number
Name: Engage Animal Health	Contact: POISON CONTROL CENTER or 911
City: Guelph	Telephone Number for Information
State: ON NIG1X7	Contact: 519-826-7878

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Special Chemical Identification; Common Name)	OSHA PEL	ACGIH TLV	STEL	CAS #	% (opt.)
Bromethalin: N-Methyl-2,4,-dinitro-N-(2,4,6-tribromophenyl)- 6-(Trifluoromethyl) Benzenamine	Not Applicable	Not Applicable	Not Applicable	63333-35-7	0.01

Section III - Physical/Chemical Characteristics

Boiling Point:	Not Applicable
Specific Gravity (H ₂ O = 1):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (AIR = 1):	Not Applicable
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Solubility in Water:	Insoluble
Appearance and Odor:	Solid green wax block

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used):	Not Applicable
Flammable Limits:	LEL: Not Applicable UEL: Not Applicable
Extinguishing Media:	Water spray, dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials.
Special Firefighting Procedures:	Wear self-contained breathing apparatus with full-face piece and protective clothing.
Unusual Fire and Explosion Hazards:	Not Applicable

Section V - Reactivity Data

Stability	STABLE
Incompatibility	(Materials to Avoid): None Known
Hazardous Decomposition or Byproducts:	None Known.
Hazardous Polymerization	WILL NOT OCCUR
Conditions to Avoid:	None Known

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Section VI - Health Hazard Data

Routes of Entry: Inhalation? NO Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic):

In the case of an acute massive dose in humans as may occur with ingestion of a concentrate, any of the following signs may be expected: headache, confusion, personality change, tremors, convulsive seizures, coma, marked respiratory distress or death.

In the case of human ingestion of sublethal doses (chronic toxicity) the individual should be observed closely for signs of numbness, incoordination, headache, and mild confusion.

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure:

In the case of an acute massive dose in humans as may occur with ingestion of a concentrate, any of the following signs may be expected: headache, confusion, personality change, tremors, convulsive seizures, coma, marked respiratory distress or death

In the case of human ingestion of sublethal doses (chronic toxicity) the individual should be observed closely for signs of numbness, incoordination, headache, and mild confusion.

Medical Conditions Generally Aggravated by Exposure: None presently known.

Emergency and First Aid Procedures**INGESTED:**

If appreciable quantities are swallowed, call a physician or the Poison Control Center.

SKIN CONTACT:

Wash affected areas promptly and thoroughly with soap and water. Rinse thoroughly.

If irritation occurs, get medical attention.

EYE CONTACT:

Immediately rinse eyes with water for a minimum of 15 minutes. Remove contact lenses if applicable after 5 minutes, than continue rinsing eyes with water. Call a physician if irritation persists.

INHALATION:

Not Applicable

Toxicity of Technical Bromethalin:

Dog Oral LD ₅₀	4.7 mg/kg	Oral (rats) LD ₅₀	2.0 mg/kg
Cat Oral LD ₅₀	1.8 mg/kg	Dermal toxicity (rabbit)	3/6 deaths @ 200 mg/kg
Monkey Oral LD ₅₀	5.0 mg/kg	Dermal irritation (rabbit)	None
Rabbit Oral LD ₅₀	13.0 mg/kg	Ocular irritation (rabbit)	Slight
Adult Quail Oral LD ₅₀	4.6 mg/kg	Inhalation LC ₅₀	0.024 mg/L

Note to Physician:

The suggested treatment of bromethalin toxicity in the adult human can be divided into three categories. Appropriate dosages for children must be carefully adjusted according to weight. Measures to be taken are:

- 1.0 Limit further absorption by producing emesis. This could be done by agitating the back of the throat, giving 1 or 2 tablespoons of syrup of Ipecac, etc. This should be followed by administering activated charcoal, milk, beaten eggs, or suspension of flour or starch. **NOTE:** If no convulsions are present, gastric lavage could be done.
- 2.0 Treatment of convulsions by standard anticonvulsant therapy, diazepam, diphenylhydantoin, and barbiturate should be instituted. These treatments have been shown to prolong survival in rats, which have received large doses of bromethalin.
- 3.0 Treatment of cerebral edema and increased cerebrospinal fluid pressure should be done in the hospital. Treatment of this syndrome would largely depend on the severity since rodent studies have shown that these effects are reversible in large part within seven days. Treatment would

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involve the use of an osmotic diuretic, such as mannitol and corticosteroid therapy (dexamethasone) and furosemide.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Sweep up and place in a suitable container for disposal.

Waste Disposal Method:

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local laws.

Precautions to be Taken in Handling or Storage:

Store in original container in a cool, dry area away from foodstuffs and inaccessible to children and pet. Keep containers closed and away from other chemicals.

Other Precautions:

Keep out of the reach of children, pets and other animals except the intended species, i.e. mouse, rat. Wash hands thoroughly after handling this product.

IMPORTANT: DO NOT EXPOSE CHILDREN, PETS OR OTHER NON-TARGET ANIMALS TO RODENTICIDES.

TO HELP PREVENT ACCIDENTS:

1. Store product not in use in a location out of reach of children and pets.
2. Apply bait in locations out of the reach of children, pets, domestic animals and non target wildlife or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. IF bait can be shaken from stations when they are lifted, units must be secured or otherwise immobilized. Even stronger bait stations are needed in areas open to hoofed livestock, raccoons, bears or other potentially destruction animals or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled and unconsumed bait as specified on the label.

Section VIII - Control Measures

Respiratory Protection: Not necessary under recommended conditions of use.

Ventilation	Local Exhaust:	Not Applicable
	Special:	Not Applicable
	Mechanical (General):	Not Applicable
Protective Gloves:		Rubber gloves for prolonged or repeated exposure.
Eye Protection:		Not necessary under recommended conditions of use.
Other Protective Clothing or Equipment:		None required.
Work/Hygienic Practices:		When using do not eat, drink or smoke. Wash hands after using. Read and follow directions on product label.

Section IX - Additional Information

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

Prepared by Regulatory Affairs Department
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