

**MATERIAL SAFETY DATA SHEET**

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General Information No.  
In Case of Emergency, Call

1-877-AGRISEL (247-4735)  
1-877-854-2494

**I. PRODUCT IDENTIFICATION**

Product Name: Gladiator Place Plack Pellets  
Active Ingredient: Bromethalin (0.01%)  
Chemical Name: N-Methyl-2,4-dinitro-N-(2,4,6-tribromophenyl)-6-(Trifluoromethyl) Benzenamine

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Compound	CAS#	% by wt.
Bromethalin	63333-35-7	0.01%

**III. HAZARDS IDENTIFICATION**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**KEEP OUT OF REACH OF CHILDREN**

Caution: May be fatal if swallowed. Harmful if absorbed through the skin. Keep away from children, domestic animals, and pets. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Dogs and other scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait.

Hazardous Material Information (HMIS) Ratings:

HEALTH: 2 (Moderate)
FLAMMABILITY: 0 (Minimal)
REACTIVITY: 0 (Minimal)
PROTECTIVE EQUIPMENT: B

**IV. FIRST AID MEASURES**

If Swallowed: Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.

If in Eyes: Hold eyelid 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 a poison control center or doctor immediately for treatment advice.

NOTE TO PHYSICIAN: This product is not an anticoagulant type of rodenticide. If ingested, limit absorption by either emesis or gastric lavage. Sublethal symptoms,

if present, would be the result of cerebral edema and should be treated accordingly through administration of an osmotic diuretic and corticosteroid.

TREATMENT FOR PET POISONING: If animal eats bait call veterinarian at once.

NOTE TO VETERINARIAN: Nerve poison: Bromethalin: For animals ingesting bait and/or showing poisoning signs (muscle tremors, seizures, impaired movement, etc.), induce vomiting then administer activated charcoal and an osmotic cathartic every four to eight hours for at least two or three days following poisoning.

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**V. FIRE FIGHTING MEASURES**

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Flashpoint (method used):	Non Combustible
Flammable Limits:	Not Applicable
Extinguishing Media:	Extinguish with water, foam, or inert gas.
Special Firefighting Procedures:	Firefighters should be equipped with protective clothing and self-contained breathing apparatus.

National Fire Protection Association Rating

Health: 2
Fire: 0
Reactivity: 0

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**VI. ACCIDENTAL RELEASE MEASURES**

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Spill or Leak Procedure: Sweep up and place in a suitable container.

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**VII. HANDLING AND STORAGE**

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Store in a cool, dry area away from foodstuffs.

**HOUSEHOLD USE:**

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets.

**NON-HOUSEHOLD USE:**

Pesticide Storage: Store in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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In 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 dose (chronic toxicity) the individual should be observed closely for signs of numbness, incoordination, headache, and mild confusion.

All handlers (including applicators) must wear shoes plus socks, and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear gloves.

User Safety Recommendations:

Follow manufacturer's instruction for cleaning. Maintaining Personal Protection Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet and change into clean clothing.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Physical description:	Solid green wax block
Odor:	Grain-like
Boiling Point:	N/A
Specific Gravity:	1.203 g/mol
Vapor pressure:	N/A
Vapor density:	N/A
Melting Point:	N/A
Evaporation:	N/A
pH:	N/A
Water solubility:	Insoluble

**X. STABILITY AND REACTIVITY**

Chemical stability:	Stable
Conditions to avoid:	None currently known.
Incompatibility with other materials:	Strong Alkaline materials
Hazardous decomposition:	Oxides of carbon and nitrogen, hydrobromic acid
Hazardous polymerization:	Will not occur.

**XI. TOXICOLOGICAL INFORMATION**

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. Measure to be taken are:

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

Exposure other than by ingestion is much less likely to cause toxicity and should be treated in standard ways. If splashed on the skin, wash thoroughly with soap and water.

Toxicity of Technical Bromethalin:

Dog Oral LD<sub>50</sub> 4.7 mg/kg

Cat Oral LD <sub>50</sub>	1.8 mg/kg
Monkey Oral LD <sub>50</sub>	5.0 mg/kg
Rabbit Oral LD <sub>50</sub>	13.0 mg/kg
Adult Quail Oral LD <sub>50</sub>	4.6 mg/kg
Oral (rats) LD <sub>50</sub>	2.0 mg/kg
Dermal toxicity (rabbit)	3/6 deaths @ 200 mg/kg
Dermal irritation (rabbit)	None
Ocular irritation (rabbit)	Slight
Inhalation LC <sub>50</sub> 1 hour exposure (rats)	.024 mg/L

Routes of Entry:	Skin and Ingestion
Carcinogenicity	
NTP	No
IARC	No
OSHA	No

## XII. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in an approved landfill.

### HOUSEHOLD USE:

Pesticide Disposal: If empty: do not reuse the container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place any unused product down any indoor or outdoor drain.

### NON-HOUSEHOLD USE:

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Container Disposal: Dispose of empty container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

Nonrefillable container: Do not reuse or refill the container.

## XIII. REGULATORY INFORMATION

Shipping Name:	None required
Hazard Class:	Non-Hazardous
Labels Required:	Non-Required
Freight Class:	LTL Class 60

## XIV. OTHER INFORMATION

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