

MATERIAL SAFETY DATA SHEET
TERMINATOR® All Weather Bait
Product Number: 1240

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name	TERMINATOR® All Weather Bait
Product Description	Indoor and Outdoor Rodent Control Bait
Manufacturer/Supplier	Engage Animal Health Corporation
Address	1030 Gordon Street Guelph, ON N1G 4X5
Phone Number	(519) 826-7878 for Veterinary Technical Service
Chemtrec Number	(800) 424-9300
Emergency Number	1-(519) 826-7878 for Human and Animal Medical Emergencies
MSDS Revision Date:	July 5, 2011
Supersedes MSDS Dated:	February 5, 2009

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing. All handlers (including applicators) must wear long-sleeved shirt and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear gloves.

Routes of Entry

Skin contact - Eye contact - Ingestion - Absorption

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Skin - Kidneys - Central Nervous System (if acute overexposure)

Health Effects - Eyes

Contact can cause moderate irritation.

Health Effects - Skin

Prolonged, repeated contact with bait may cause skin irritation. The active ingredient is toxic via skin absorption.

Health Effects - Ingestion

Ingestion of large doses may cause central nervous system effects such as headache, nausea, dizziness, confusion and breathing difficulties. Chronic exposure can result in kidney damage.

Health Effects - Inhalation

Not an expected route of entry during normal handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Bromethalin	63333-35-7	0.01%
Propylene Glycol	57-55-6	<5%
Other Ingredients	N.A.	>95%

4. FIRST AID MEASURES

Eyes

Hold eye open and rise 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 for treatment advice.

Skin

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Contaminated clothing should be washed or dry-cleaned before re-use. See section 8.

Ingestion

Call a poison control center 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Contains the nerve poison Bromethalin. This is not an anticoagulant type rodenticide. For humans or animals ingesting bait and/or showing poisoning signs (such as muscle tremors, loss of hind limb use, or seizures for animals), 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.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Water spray, carbon dioxide and dry chemical. Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Contain and transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation. Dispose in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Store in original container in a cool, dry place. Keep away from children and pets. Do not store near foodstuffs. Do not contaminate water, food or feed by storage. Keep containers closed and away from other chemicals. Avoid contact with skin. Wash hands thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Bromethalin

None established

Propylene Glycol

None established

Other Ingredients

None established

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Not required under normal conditions of use.

Hand Protection

Wear gloves to avoid skin contact.

Eye Protection

Not required under normal conditions of use.

Body Protection

Long-sleeved shirts and pants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid (Block)
Color	Green
Odor	None
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	Not applicable
Vapor Pressure	Not applicable
Density	No data available
Solubility in Water	Insoluble
Vapor Density (Air = 1)	Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat - High temperatures

Materials to Avoid

Strong oxidizers

Hazardous Polymerization

Will not occur.

10. STABILITY AND REACTIVITY

Hazardous Decomposition Products

Oxides of carbon – acrolein – organic compounds

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Bromethalin: Oral LD50: (rat) 2 mg/kg
Oral LD50: (dog) 4.7 mg/kg
Oral LD50: (cat) 1.8 mg/kg
Oral LD50: (rabbit) 13.0 mg/kg
Oral LD50: (monkey) 5.0 mg/kg
Dermal LD50: (rabbit) 200 mg/kg.
Inhalation LC50: (rat) 1 hr 0.024 mg/l

Specific Target Organ Systemic Toxicity (single and repeat)

Propylene Glycol: In animal studies propylene glycol has been shown to cause kidney damage.

Bromethalin: Bromethalin has been shown to be toxic by skin absorption.

Bromethalin: In laboratory animal studies adverse neurological effects were observed.

Serious Eye Damage/Eye Irritation

Bromethalin: Slight eye irritation (rabbit).

Skin Corrosion/Irritation

Bromethalin: Not a skin irritant (rabbit).

Respiratory or Skin Sensitization

Bromethalin: Non-sensitizing (dermal, guinea pig).

Carcinogenicity

Not expected to cause long term adverse health effects.

Germ Cell Mutagenicity

Bromethalin: Mutagenicity studies were negative for *Salmonella typhimurium* and *in vivo* testing (Chinese hamsters and mice).

Toxicity to Reproduction

Bromethalin: In laboratory animal studies no adverse reproductive effects were observed.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

This product is extremely toxic to mammals and birds. Dogs and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may also be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

13. DISPOSAL CONSIDERATIONS

Product Disposal:

Do not contaminate water, food or feed by disposal. Never place any unused product down an indoor or outdoor drain. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. Dispose in accordance with federal, state and local regulations.

Container Disposal:

Nonrefillable container. Do not refill or reuse container. Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration if allowed. Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Ship in accordance with federal, state and local regulations.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

Propylene glycol (CAS# 57-55-6) is on the TSCA list.

DSL (Canadian) Listing

Propylene glycol (CAS# 57-55-6) is on the Canadian DSL list.

WHMIS Classification

D.2.B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law: None

MN Right to Know

This product contains the following chemicals on the Minnesota Right to Know Law: Propylene glycol (CAS# 57-55-6) < 5%

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Corn Oil refined (8001-30-7) <10% - Glycerine (56-81-5) <5% - Propylene Glycol (57-55-6) <5%

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: None

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: None

SARA Title III Sect. 311/312 Categorization

Immediate (acute) Delayed (chronic)

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health – 1*

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

*(HMIS): Chronic Hazard

For further information call: (519) 826-7878

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REGISTRATION NO. 23761 PEST CONTROL PRODUCTS ACT

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