

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: BLAZE PRO Home Bug Shield
Product Item Numbers: P3-099906 (31070) – 400 g
Product Manufacturer: Empack Spraytech Inc.
Address: 98 Walker Drive
 Brampton, Ontario, Canada L6T 4H6
Telephone: (905) 792 – 6571
Emergency Telephone: Empack: (905) 792-6571 (8:00 am – 4:00 pm ET)
 CANUTEC: (613) 996-6666 collect (24 Hours)
Product Use: Insecticide Spray
WHMIS Classification: A, D2A, D2B
TDG Classification: AEROSOLS, Class 2.2, UN1950
Under the Clear Language Regulations: refer to Section 1.17 for Limited Quantity Shipping Information, if shipping under this exemption.
Prepared By: Empack Regulatory Department
Preparation Date: November 20, 2013

2. Composition / Information on Ingredients

Hazardous Ingredients	CAS Number	Weight %	ACGIH-TLV (ppm)
Ethyl alcohol	64-17-5	10-30	1000
Isobutane	75-28-5	7-13	1000
Propane	74-98-6	5-10	2500
Petroleum Distillates	64742-47-8	1-5	100
N-Octyl Bicycloheptene Dicarboximide	113-48-4	0.1-1	N/Av
Permethrin	52645-53-1	0.1-1	N/Av
d-Trans Allethrin	28057-48-9	0.1-1	N/Av
Morpholine	110-91-8	< 0.1	30
Sodium Nitrate	7631-99-4	< 0.1	N/Av

3. Hazards Identification

Emergency overview:
 KEP OUT OF REACH OF CHILDREN. Product may cause substantial but temporary eye injury. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

Potential Health Effects:
Inhalation: Excessive inhalation can cause nasal and respiratory irritation. Can also cause headaches, dizziness, fatigue, lack of coordination, tremors and unconsciousness.
Skin Contact: Can cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.
Eye Contact: This product causes irritation, redness and pain.
Ingestion: Harmful if swallowed. Small amounts of this product aspired into the respiratory during ingestion or vomiting may cause mild to sever lung injury.
Carcinogenicity of Material: None known.

4. First Aid Measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin Contact: Wash skin with plenty of soap and water. Get medical attention.

Eye Contact: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Ingestion: Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. **Note to Physicians:** Treat symptomatically.

5. Fire Fighting Measures

Flammability Class: non-Flammable

If Yes, Under Which Conditions: Excessive heat, sparks and open flame.

Flash Point (propellant): -83 °C (closed cup)

Autoignition Temperature (propellant): 462 °C

% Flammability Limits in Air (propellant): LEL: 1.8, UEL: 8.5

Fire and Explosion Hazards: Treat as an oil fire; wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Keep nearby containers cool with a water spray. Water runoff can cause environmental damage. Dike and collect water used to fight fire for proper disposal.

Extinguishing Media: Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Use water spray, foam, carbon dioxide, and dry chemical.

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

6. Accidental Release Measure

Spill and Leak: Large spill or leak is unlikely in aerosol containers. If happens, eliminate all sources of ignition. Stop release, if possible without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain the spill. Take action to reduce vapours. Soak up with absorbent such as vermiculite, sand, or earth. Transfer into waste containers for proper disposal. Clean up the spill area with detergent and water.

7. Handling And Storage

Handling: Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Avoid breathing vapours or spray mists of this product. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

Storage: Keep container closed. Store upright in cool, dry place away from heat, sparks and open flames. Do not puncture or incinerate. Avoid contamination of food and feed.

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Respiratory Protection: Wearing a respirator is not normally required when handling this product. Use in well ventilated areas. Take prudent precautions to avoid breathing vapours and/ or spray mists of this product.

Eye Protection: Use safety goggles or full-face shield when there is a potential for eye contact.

Skin Protection: Use rubber or latex gloves when there is a potential for prolonged or excessive skin contact.

9. Physical And Chemical Properties

Physical State:	Aerosol
Appearance:	Jet foam
Odour:	Characteristic
Odour Threshold:	Not Available
Boiling Point (propellant):	-12 °C
Boiling Point (liquid):	100 °C
% Weight Volatile:	N/Av
VOC wt%	< 26
Vapour Density (Air = 1):	Not available
Specific Gravity (Liquid):	0.96 @ 25°C
Specific Gravity (Aerosol):	0.90 @ 25°C
Vapour Pressure (psia):	50- 65 @ 25°C
Evaporation Rate:	<1 (n-Butyl Acetate = 1)
pH:	8.5-10
Melting point:	Not available
Solubility in Water:	Soluble

10. Stability And Reactivity

Chemical Stability: Stable at normal temperature and pressures.

Incompatible Materials: Strong acids, bases, and oxidizing agent.

Hazardous Products of Decomposition: May form carbon dioxide and carbon monoxide, various hydrocarbons.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Route of Entry:

Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes

Comments: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Effects of Acute Exposure:	No information is available.
Effects of chronic exposure:	None known.
Carcinogenicity of material:	None known when used below acute toxicity limit.
Reproductive effects:	No information is available.
Teratogenicity:	No information is available.
Mutagenicity:	No information is available.

Acute toxicity**Ethyl Alcohol:**

LD50 Oral: 7060 mg/kg (Rat), 3450 mg/kg (Mouse); LC50 Inhalation: >20000 ppm (Rat 8 hrs)

Isobutane/ Propane:

LC50 Inhalation: 658 mg/L (4hrs-Rat)

Petroleum Distillates:

LD50 Oral: 5000 mg/kg (Rat); LC50 Dermal: 4000 mg/kg (Rabbit); LC50 Inhalation: 5500 mg/m³ (Rat)

N-Octyl Bicycloheptene Dicarboximide:

LD50 Oral: 6150 mg/kg (Rat), 2600 mg/kg (Mouse); LC50 Dermal: 200 mg/kg (Rabbit)

Permethrin:

LD50 Oral: 1030 mg/kg (Rat), LC50 Dermal: >2000 mg/kg (Rabbit)

d-Trans Allethrin:

LD50 Oral: 709 mg/kg (Rat-male), 1041.9 mg/kg (Rat-female); LC50 Inhalation: 2510 mg/m³ (Rabbit)

Morpholine:

LD50 Oral: 1450 mg/kg (Rat), 525 mg/kg (Mouse); LC50 Dermal: 500 mg/kg (Rabbit); LC50 Inhalation: 11313.7 ppm (Rat 4 hrs)

Sodium nitrate:

LD50 Oral: 1267 mg/kg (Rat), 2680 mg/kg (Rabbit);

12. Ecological Information

Product contains components which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and Federal/ national regulations.

13. Disposal Considerations

When container is empty, replace cap and offer for recycling. Where recycling is not available, securely wrap container in several layers of newspaper and discard in trash. Contaminated absorbent and wash water should be disposed of according to local, State, and Federal regulations.

14. Transport Information**Ground:**

T.D.G. Classification: Consumer Commodity.

DOT CLASSIFICATION: Consumer Commodity, ORM-D,

Air: Cannot be shipped by air.

Sea: AEROSOLS, UN# 1950, Class 2.2.

15. Regulatory Information**CANADA**

WHMIS Classification: A: Compressed gas, D2A: Material causing very toxic effect, D2B: Material causing other toxic Materials.

USA

Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas.

HMIS: 1 Health, 1 Fire, 0 Reactivity.

16. Other Information**Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration, USA
TSCA	Toxic Substances Control Act 1976, USA
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
VOC	Volatile Organic Compounds
WHMIS	Workplace Hazardous Materials Information System

Disclaimer:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**

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