

# MATERIAL SAFETY DATA SHEET

## Bengal Lawn Flea & Tick Killer

### 1. COMPANY & PRODUCT INFORMATION

**Product:** Bengal Lawn Flea & Tick Killer

**EPA Reg. No.** 1021-1778-68543

**PRODUCT DESCRIPTION:** A Water-Dilutable Insecticide Concentrate for Outdoor Use.

**Emergency Telephone No.:** (225) 753-1313 (24 hours)

### 2. HAZARDOUS INGREDIENTS\*

**Esfenvalerate (active)**

**Percent by weight:** 0.425%

**CAS No.** 66230-04-4

**Exposure Limits:** not established.

Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

\*Hazardous within the meaning of 29 CFR 1910.1200

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** CAUTION. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause temporary irritation, tearing, and blurred vision.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**SKIN ABSORPTION:** Harmful if absorbed through the skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Excessive inhalation may be irritating to the respiratory tract.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: None known.

COMMENTS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 4. FIRST AID MEASURES

**EYES:** Hold eye 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 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.

**INGESTION:** If swallowed, 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 a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate (Vitamin E). Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > 93.3°C (200°F) TAG Closed Cup

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Use water spray, foam, carbon dioxide or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions this product may support combustion and may decompose to give off toxic gases such as HYDROGEN CYANIDE, carbon monoxide, carbon dioxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

### 6. SPILL/LEAK PROCEDURES

**SMALL SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent.

**LARGE SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Contains pyrethroids 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.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Do not use or store near heat, sparks, open flame, or any other ignition sources.

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

**STORAGE:** Store in a cool, dry place. Keep container closed.

#### KEEP OUT OF REACH OF CHILDREN.

HMIS Rating: Health/2 Flammability/1 Physical Hazard/1

NFPA Rating: Health/2 Flammability/1 Reactivity/0

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Esfenvalerate** TWA: None ACGIH TLV: None

2 mg/m3 Exposure Limit recommend by Supplier

**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Take prudent precautions to avoid contact with skin and clothing.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

### 9. PHYSICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Very faint sweet odor.

**APPEARANCE:** Clear, yellow-colored liquid.

**COLOR:** 1.0 on Gardner Scale.

**pH:** 4.8

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

**FLASHPOINT AND METHOD:** > 93.3°C (200°F) TAG Closed Cup

**SOLUBILITY IN WATER:** Miscible in water

**SPECIFIC GRAVITY:** 1.044 (Water = 1) at 20°C (68°F)

**VISCOSITY:** 43.5 CPS at 24°C (75.2°F) Brookfield

**VOC Content:** < 6.000 %

### 10. STABILITY & REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** HYDROGEN CYANIDE GAS may be formed by thermal decomposition at 160°F (71.1°C) or higher, or by contact with alkaline substances such as soda ash & lye.

## 11. TOXICOLOGICAL

**ACUTE DERMAL LD50:** > 2000 mg/kg Notes: Albino rabbit.

**ORAL LD50:** > 1500 mg/kg Notes: Albino rat.

**INHALATION LC50:** The Acute Inhalation LC50 of this material places it in EPA Toxic Category IV.

**EYE EFFECTS:** Irritation clearing in 72 hours.

**SKIN EFFECTS:** Slight irritation at 72 hours. Produced a primary skin Irritation Index = 1.17

**SENSITIZATION:** A contact sensitizer.

**GENERAL COMMENTS:** Some or all of the toxicity data reported above was bridged from a substantially similar formula.

**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.

## 12. ENVIRONMENTAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is extremely toxic to fish. Do not apply directly to water. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not pour product or rinse water down any drain. Do not contaminate water when disposing of equipment washwaters or rinsate.

## 13. DISPOSAL

### DISPOSAL METHOD:

IF EMPTY: Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

## 14. TRANSPORTATION INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**AIR (ICAO/IATA) SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**VESSEL (IMO/IMDG) SHIPPING NAME:** Not Available

## 15. REGULATORY INFORMATION

### UNITED STATES SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No                      **PRESSURE GENERATING:** No

**REACTIVITY:** No              **ACUTE:** Yes

**313 REPORTABLE INGREDIENTS:** This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

This product contains less than 6% VOC's.

US EPA Signal Word: CAUTION

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