

# MATERIAL SAFETY DATA SHEET

## Bengal Flea & Tick Pet Spray

### 1. COMPANY & PRODUCT INFORMATION

**Product:** Bengal Flea & Tick Pet Spray

**EPA Reg. No.** 1021-1704-68543

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

### 2. HAZARDOUS INGREDIENTS\*

Chemical Name	Wt. %	
Pyrethrins	0.18%	CAS # 8003-34-7
NYLAR® (Pyriproxyfen)	0.125%	CAS # 0051-03-6
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	1.00%	CAS # 113-48-4
Petroleum Distillates	< 2.0%	CAS # 64742-47-8
Isopropyl Alcohol	50-98%	CAS # 67-63-0

Remaining Ingredients are a Trade Secret.

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

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS: CAUTION.** OSHA-FLAMMABLE LIQUID. Do not use or store near heat, sparks, open flame, or any other ignition sources. Harmful if swallowed or absorbed through the skin.

Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes moderate eye irritation.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).

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

**INGESTION:** Harmful if swallowed.

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

**CHRONIC:** None known.

### 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, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. 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 pyrethrin exposure is topical application of tocopherol acetate (Vitamin E).

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 16.1°C (61°F)TAG Closed Cup

**FLAMMABLE CLASS:** OSHA-FLAMMABLE LIQUID

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

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

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

**SENSITIVE TO STATIC DISCHARGE:** Yes, use proper bonding and/or grounding procedures.

### 6. SPILL/LEAK PROCEDURES

**SMALL SPILL:** Shut off ignition sources. 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. Clean spill area of residues and absorbent.

**LARGE SPILL:** Shut off ignition sources. 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, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Contains Pyrethrins, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state, and federal 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. ALWAYS wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield when handling this material. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, food or feedstuffs by storage, handling or disposal. Read and observe all precautions and

instructions on the label.

**STORAGE:** Store in a cool, dry, well-ventilated place. Keep container closed. Do not use or store near heat, open flame, ignition sources, or near strong acids, bases, and oxidizers. Emptied containers may retain product residues.

**KEEP OUT OF REACH OF CHILDREN.**

**ELECTROSTATIC ACCUMULATION HAZARD:** Use proper bonding or grounding procedures when handling this material.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

#### EXPOSURE LIMITS

**Pyrethrins** OSHA PEL 5ppm TWA, ACGIH TLV 5ppm

**NYLAR® (Pyriproxyfen)** None

**MGK® 264 (N-Octyl Bicycloheptene Dicarboximide)** None

**Petroleum Distillates** 100ppm, 525 mg/m3 (recommended)

**Isopropyl Alcohol** OSHA PEL 400ppm TWA, 980 mg/m3

ACGIH TLV 400ppm, 983 mg/m3

ACGIH STEL 500ppm, 1230 mg/m3

**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.

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

**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:** Isopropanol odor

**APPEARANCE:** Clear light amber liquid.

**pH:** Not available

**VAPOR PRESSURE:** Not Available

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** Not Available

**FREEZING POINT:** Not Available

**MELTING POINT:** Not Available

**SOLUBILITY IN WATER:** Miscible in water

**SPECIFIC GRAVITY:** 0.788 (Water = 1) Hydrometer @ 20°C (68°F)

**VISCOSITY:** 9.3CPS at 21°C (69.8°F) Brookfield

**VOC Content:** <99 %

## 10. STABILITY & REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

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

## 11. TOXICOLOGICAL

**ACUTE DERMAL LD50:** >2.0 gm/kg Albino rabbit.

**ORAL LD50:** 3.98 gm/kg Albino rat.

**INHALATION LC50:** >9.66 mg / L Rats exposed for 4 hours to test atmosphere.

**EYE EFFECTS:** Irritation clearing by Day 7.

**SKIN EFFECTS:** Slight irritation at 72 hours. This material produced a primary skin Irritation Index of 0.50 in albino rabbits.

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

**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.

**Carcinogenicity/ Oncogenicity**-Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in the animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans.

## 12. ENVIRONMENTAL INFORMATION

**ENVIRONMENTAL DATA:** Environmental data not available for this product.

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

## 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:** This product contains the following RCRA/CERCLA Hazardous wastes/substances:  
Pyrethrins, CERCLA RQ = 1 Lb.

## 14. TRANSPORTATION INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Flammable Liquid, N.O.S. (Isopropanol)

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1993

**PACKING GROUP:** II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1 Lb.

**OTHER SHIPPING INFORMATION:** In quantities more than 555.5 Lbs., the proper shipping name is:

Flammable Liquid, N.O.S. (Isopropanol) RQ(Pyrethrins) 3, UN1993, II

**AIR (ICAO/IATA) PROPER SHIPPING NAME:** Flammable Liquid, N.O.S. (Isopropanol), RQ (Pyrethrins)

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1993 **PACKING GROUP:** II

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

## 15. REGULATORY INFORMATION

**HMS Ratings:** Health: 2 Fire: 4 Physical Hazard: 0

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) UNITED STATES 311/312 HAZARD CATEGORIES:**

**FIRE:** YES

**PRESSURE GENERATING:** NO

**REACTIVITY:** NO

**ACUTE:** YES

**313 REPORTABLE INGREDIENTS:**

Isopropanol CAS# 67-63-0, 98%

**302/304 EMERGENCY PLANNING EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation. (40 CFR 355).

**See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).**

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

**STATE REGULATIONS:**

**VOLATILE ORGANIC COMPOUNDS (VOC):**

This product contains less than 99% VOC's.

US EPA Signal Word: CAUTION

Date Revised: April 12, 2010



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