

# SHIELDTEC<sup>®</sup>

## Flea & Tick Pet Spray

### SAFETY DATA SHEET

#### 1. IDENTIFICATION

**PRODUCT NAME:** ShieldTec<sup>®</sup> Flea & Tick Pet Spray

**EPA REGISTRATION NUMBER:** 87093-8-91300

**RECOMMENDED USE:** Insecticide; See product label for a complete list of uses and use sites.

**RESTRICTIONS ON USE:** See product label for any restrictions on the use of this product.

**CHEMICAL FAMILY:** N/A – Multiple active ingredients

**CHEMICAL NAME OF ACTIVE INGREDIENT(S):** Fipronil: 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(trifluoromethylsulfinyl)pyrazole-3-carbonitrile  
S-methoprene

**MANUFACTURED FOR:** Promika, LLC  
501 Cascade Pointe Lane, Suite 102  
Cary, NC 27513

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES, CONTACT CHEMTREC:** 1-800-424-9300

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES, CONTACT SAFETYCALL:** 1-844-685-9173

#### 2. HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Flammable liquid. May cause drowsiness or dizziness if inhaled. Causes serious but temporary eye irritation.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Flammable Liquid	Category 2
Acute Inhalation Toxicity	Category 4
Eye Damage/Irritation	Category 2A
Specific Target Organ Toxicant – Single Exposure	Category 3
Carcinogenicity	Category 2

**SIGNAL WORD:** DANGER

**HAZARD STATEMENT(S):** Highly



Harmful if inhaled. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

#### PRECAUTIONARY STATEMENT(S):

**PREVENTION:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**RESPONSE: IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing. Rinse skin with water/shower.

**IN CASE OF FIRE:** Use foam, dry chemical, carbon dioxide to extinguish.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**IF EXPOSED OR CONCERNED:** Get medical advice/attention.

**STORAGE:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**DISPOSAL:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

< 1.0%	Acute dermal irritation
5–10%	Acute inhalation toxicity
5–10%	Eye irritation
5–10%	Skin irritation
5–10%	Skin sensitization

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Isopropanol	67-63-0	90.0–100.0%
Diethylene glycol monoethyl ether	111-90-0	2.5–10.0%
Butylated hydroxyanisole	25013-16-5	0.1–1.0%
Fipronil	120068-37-3	0.29%
S-methoprene	65733-16-6	0.28%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### 4. FIRST AID MEASURES

FIRST AID	
<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 to 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.
<b>IF ON SKIN:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	Move 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.
<b>IF INGESTED:</b>	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 doctor. Do not give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed:

Redness, edema, drying, defatting and cracking of the skin. Redness and tearing of the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide

**UNSUITABLE EXTINGUISHING MEDIA:** Water jet

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition may produce toxic oxides of carbon and nitrogen.

#### SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

**UNUSUAL FIRE & EXPLOSION HAZARDS:** None known

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** See Section 8 for personal protection equipment.

**ENVIRONMENTAL PRECAUTIONS:** Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

**METHODS FOR CONTAINMENT:** Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition. Absorb small spills with sand, vermiculite or other

inert absorbent. Avoid use of combustible materials such as sawdust or cloth rags. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

**METHODS FOR CLEAN-UP:** Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

**OTHER INFORMATION:** None known

### 7. HANDLING AND STORAGE

**HANDLING:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

**STORAGE:** See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**STORAGE TEMPERATURE (MIN/MAX):** Store at room temperature.

**PRODUCT INCOMPATIBILITIES:** Acids

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Users of a pesticide product must refer to the product label for personal protective equipment requirements.**

#### EXPOSURE GUIDELINES:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Diethylene glycol monoethyl ether		25 ppm (TWA)	
Isopropanol	400 ppm (TWA)	200 ppm (TWA) 400 ppm (STEL)	

**ENGINEERING CONTROLS:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**RESPIRATORY PROTECTION:** In areas of poor ventilation or where exposure guidelines will be exceeded, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**EYE PROTECTION:** Chemical goggles or safety glasses and full-face shield.

**PROTECTIVE GLOVES:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**OTHER PROTECTIVE CLOTHING:** Long-sleeved shirt, long pants and chemical resistant footwear plus socks

**GENERAL SAFETY MEASURES:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear, non-viscous liquid
<b>ODOR:</b>	Alcohol
<b>ODOR THRESHOLD:</b>	Not determined
<b>PH (1% DISPERSION):</b>	6.3
<b>MELTING/FREEZING POINT:</b>	Not determined
<b>BOILING POINT/RANGE:</b>	Not determined
<b>FLASH POINT:</b>	53° F (11.7° C)
<b>EVAPORATION RATE:</b>	Not determined
<b>FLAMMABILITY:</b>	Not applicable
<b>UPPER/LOWER FLAMMABILITY LIMITS:</b>	Not determined
<b>VAPOR PRESSURE:</b>	Not determined
<b>VAPOR DENSITY:</b>	Not determined
<b>RELATIVE DENSITY (@24° C):</b>	0.79 (typical)
<b>SOLUBILITY:</b>	Not determined
<b>PARTITION COEFFICIENT:</b>	Not determined
<b>AUTO-IGNITION TEMPERATURE:</b>	Not determined
<b>DECOMPOSITION TEMPERATURE:</b>	Not determined
<b>VISCOSITY:</b>	Not determined

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** No hazardous chemical reactions known

**CHEMICAL STABILITY:** Stable under normal storage and handling conditions

**POSSIBILITY OF HAZARDOUS REACTIONS:** No potential for hazardous reactions known

**CONDITIONS TO AVOID:** Avoid heat, flames, and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

**INCOMPATIBLE MATERIALS:** Acids

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce toxic oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EXPOSURE:** Eye contact, skin contact, inhalation, ingestion

**SYMPTOMS OF EXPOSURE:** Redness, edema, drying, defatting and cracking of the skin. Redness and tearing of the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**ORAL LD<sub>50</sub>:** 4,979 mg/kg (Estimated based upon component data)

**DERMAL LD<sub>50</sub>:** > 5,000 mg/kg (Estimated based upon component data)

**INHALATION LC<sub>50</sub>:** 1.5 mg/L (4-hour) (Estimated based upon component data)

**EYE IRRITATION/DAMAGE:** Estimated to cause moderate eye irritation based upon component data

**SKIN CORROSION/IRRITATION:** Not anticipated to cause skin irritation based upon component data

**SKIN SENSITIZATION:** Not anticipated to cause skin sensitization based upon component data

**CHRONIC/SUBCHRONIC TOXICITY:** No data available

**MUTAGENICITY:** No data available

**REPRODUCTIVE TOXICITY:** No data available

**NEUROTOXICITY:** No data available

**TARGET ORGANS:** No data available

**ASPIRATION HAZARD:** Not anticipated to be an aspiration hazard

**CARCINOGENICITY:** Fipronil Technical: The EPA has classified fipronil as a Group C – possible Human Carcinogen based upon laboratory animal studies (increased thyroid tumors in male and female rats). Humans and rats have the same mechanism of action which produced fipronil-induced thyroid tumors in the rat; however, the rat appears to be more highly sensitive than humans. Therefore, the fipronil-induced rat thyroid tumors are not considered suggestive of a human health risk.

Chemical Name	ACGIH	IARC	NTP	OSHA
Butylated hydroxyanisole		Group 2B	Reasonably anticipated to be a human carcinogen	
Isopropanol		Group 3		

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS STATEMENT FROM FIFRA REGULATED PESTICIDE LABEL:** No such statement

**ECOTOXICITY DATA:** Data presented below is on the fipronil technical product

**FISH TOXICITY:** Zebra fish: 96-hour LC<sub>50</sub> = 0.071 mg/L

**AQUATIC INVERTEBRATE TOXICITY:** *Daphnia magna*: 96-hour EC<sub>50</sub> < 0.1 mg/L

**AQUATIC PLANT TOXICITY:** *P. subcapitata*: EC<sub>50</sub> = 3.0 mg/L

**AVIAN TOXICITY:** Japanese quail: LD<sub>50</sub> = 148.5 mg/kg

**HONEYBEE TOXICITY:** Oral LD<sub>50</sub> = 0.003 µg/bee

### ENVIRONMENTAL EFFECTS:

**PERSISTENCE AND DEGRADABILITY:** No data available

**BIOACCUMULATION:** No data available

**MOBILITY:** No data available

**OTHER ADVERSE EFFECTS:** No data available

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL: Refer to the pesticide label for full information on disposal.** Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**CONTAINER DISPOSAL: Refer to the pesticide label for full information on disposal.** Do not puncture and incinerate.

**RCRA CHARACTERISTICS:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

### 14. TRANSPORTATION INFORMATION

**DOT (GROUND):** UN1993, Flammable Liquid N.O.S. (Isopropanol), 3, PGII

**IMDG (SEA):** UN1993, Flammable Liquid N.O.S. (Isopropanol), 3, PGII

**IATA (AIR):** UN1993, Flammable Liquid N.O.S. (Isopropanol), 3, PGII

### 15. REGULATORY INFORMATION

**LABELING REQUIREMENTS UNDER FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

#### CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Persons applying this product must wear rubber gloves.

**TSCA INVENTORY:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

#### SARA TITLE III INFORMATION:

##### SECTION 302 – EXTREMELY HAZARDOUS SUBSTANCES:

None

##### SECTION 311/312 – HAZARD CATEGORIES: Acute

(Immediate), Chronic (Delayed), Fire

**SECTION 313:** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Isopropanol	67-63-0	90 - 100%

**CERCLA:** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

#### CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
Butylated hydroxyanisole	25013-16-5	Carcinogen

#### U.S STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Butylated hydroxyanisole	X	X	
Isopropanol	X	X	X

### 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	1	3	0	None

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**REVISION NOTE:**