



## MATERIAL SAFETY DATA SHEET

www.blackflag.com

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Black Flag Kills Ants Spiders Fleas Ticks  
**Product Codes:** 61160 (EPA REG. NO. 73049-167-79529)  
**Product Use:** A Pressurized Aerosol-Insecticide Spray  
**Supplier:** Black Flag Brands, LLC  
**Address:** 3300 Corporate Drive, Joliet, IL 60431  
**Business Phone:** 800-887-3524 M-F, 9-5 EST  
**Medical Emergency:** 1-866-767-5047 (24 Hour)  
**Transportation Emergency:** 1-800-424-9300 (CHEMTREC 24 Hour)  
**Date:** 7/16/2008

### SECTION 2 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

AN OFF-WHITE AEROSOL.

CAUTION: - TOXIC TO FISH.  
 - COMBUSTIBLE  
 - CONTENTS UNDER PRESSURE.

#### POTENTIAL HEALTH EFFECTS

##### Acute Toxicity (Primary Routes of Exposure)

Inhalation and skin contact.

**Eye:** Slightly irritating.

**Skin:** Slightly irritating.

**Ingestion:** Not an expected route of exposure for an aerosol product.

**Inhalation:** Slightly irritating.

**Signs and Symptoms of Systemic Effects:** Based on animal studies, symptoms of overexposure to this product include diarrhea, yellow nasal discharge, and activity decrease.

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>WEIGHT %</u>	<u>CAS NUMBER</u>
Tetramethrin	0.1	7696-12-0
Permethrin	0.25	52645-53-1
Piperonyl Butoxide	0.5	51-03-6
Hydrocarbon Solvent <sup>†</sup>	< 10	* Varies
White Mineral Oil <sup>†</sup>	-	8042-47-5
Isobutane <sup>†</sup>	< 20	75-28-5
Propane <sup>†</sup>	-	74-98-6

<sup>†</sup> Alternate formulas, in which chemical noted may or may not be present

\* Various alternate formulas containing one or more of the following: N-paraffinic (CAS 64771-72-8), hydrotreated light distillate (CAS 64742-47-8) or medium aliphatic naphtha (CAS 64742-88-7)

**COMMENTS:** Values are not product specifications. Percentages not identified are considered proprietary. All hazards associated with the ingredients are addressed in this document.

## SECTION 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:** 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.

**INHALATION:** 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.

**NOTES TO PHYSICIAN:** This product contains a Pyrethroid. For skin effects, a highly efficient therapeutic agent for pyrethrin/ pyrethroid exposure is topical application of tocopherol acetate (Vitamin E). If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy.

Do not administer milk, cream or other substances containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

## SECTION 5 - FIRE FIGHTING MEASURES

**FLASH POINT:** 126 F (52 C) **METHOD:** TCC Flame projection: None

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

**FLAMMABLE LIMITS** (% by volume in air): Lower: NA Upper: NA

**FIRE AND EXPLOSION HAZARDS:** Combustible. Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**FIRE FIGHTING INSTRUCTIONS:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

**HAZARDOUS COMBUSTION PRODUCTS:** May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Remove all sources of ignition if safe to do so.

Ventilate area. Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

**GENERAL AND DISPOSAL:** Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial, and local regulations (See Section 13 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

### SPILL OR LEAK:

**CONTAINMENT:** If can is punctured or leaking soak up liquid with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Place in an approved chemical waste container for disposal. Do not allow spill material to enter any body of water.

**CLEANUP:** Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

## SECTION 7 – HANDLING AND STORAGE

**HANDLING PRECAUTIONS:** Avoid contact with skin, eyes or clothing. Do not use near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**STORAGE PRECAUTIONS:** Do not store near heat or open flame. Store in a cool, dry area away from children. Do not transport or store below 32°F.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after handling.

**NFPA 30B:** Level 1 Aerosol

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

<u>CHEMICAL NAME</u>		<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Tetramethrin		None	None
Permethrin		None	None
Piperonyl Butoxide		None	None
Petroleum Distillates	TWA	None	None (Supplier recommended 1200 mg/m3)
White Mineral Oil	TWA	None	5 mg/m3
Isobutane	TWA	1000 ppm	1000 ppm
Propane	TWA	1000 ppm	1000 ppm

**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.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Off-white liquid (aerosol).

**ODOR:** of solvent, similar to mineral spirits.

**MELTING POINT:** NA

**SPECIFIC GRAVITY:** 0.97 @ 21°C

**SOLUBILITY (H<sub>2</sub>O):** NA

**pH:** 7.1 @ 21°C

**CORROSION CHARACTERISTICS:** non corrosive

**DENSITY:** 8.11 lbs/gal

**VISCOSITY:** 1160 cp @ 21°C

## SECTION 10 – STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable

**INCOMPATIBILITY:** none known

**HAZARDOUS DECOMPOSITION PRODUCTS:** May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

**OXIDATION/REDUCTION PROPERTIES:** Product does not have the potential to act as a strong oxidizing or reducing agent.

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Eye Irritation (rabbit):** Slightly irritating

**Skin Irritation (rabbit):** Slightly irritating.

**Dermal Toxicity LD50 (rabbit):** > 5,000 mg/kg

**Oral Toxicity LD50 (rat):** > 5,000 mg/kg

**Inhalation Toxicity LC50(rat):** > 5.30 mg/

**Skin Sensitization(guinea pig):** Non-sensitizer

**TOXICITY OF TETRAMETHRIN, PERMETHRIN, PIPERONYL BUTOXIDE:**

**CHRONIC/CARCINOGENICITY:** A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks. A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

**CARCINOGENICITY:** NTP: No IARC: No OSHA: No

=====  
**SECTION 12 – ECOLOGICAL INFORMATION**  
 =====

**ECOTOXICOLOGICAL INFORMATION**

**ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:** This product is toxic to fish.

**OTHER ENVIRONMENTAL INFORMATION:** Do not apply directly to water. Do not contaminate water by disposal of wastes.

=====  
**SECTION 13 – DISPOSAL CONSIDERATIONS**  
 =====

**DISPOSAL METHOD:**

IF EMPTY: Do not reuse 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 no RCRA hazardous wastes/substances:

=====  
**SECTION 14 - TRANSPORT INFORMATION**  
 =====

**U.S. DOT (ROAD OR RAIL):**

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

**AIR / WATER / INTERNATIONAL TRANSPORT:** NOT AVAILABLE

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

=====  
**SECTION 15 - REGULATORY INFORMATION**  
 =====

**REGULATIONS UNDER FIFRA:** All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**OTHER U.S. FEDERAL REGULATIONS:**

**SARA TITLE III:**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER	INGREDIENT NAME	PERCENT BY WEIGHT
7696-12-0	Tetramethrin	= 0.1
52645-53-1	Permethrin	= 0.25
51-03-6	Piperonyl butoxide	= 0.5

SARA Title III:

Acute Health Hazard - Yes  
 Chronic Health Hazard - No  
 Fire Hazard - Yes  
 Sudden Release of Pressure - Yes  
 Reactivity Hazard - No

This information must be included on all MSDSs that are copied and distributed for this material.

#### REGULATED INGREDIENTS

INGREDIENT: Tetramethrin  
 CAS NUMBER: 7696-12-0  
 PERCENT BY WEIGHT: = 0.1  
 Regulations: SARA Section 313 Toxic Chemical

INGREDIENT: Permethrin  
 CAS NUMBER: 52645-53-1  
 PERCENT BY WEIGHT: = 0.25  
 Regulations: Massachusetts Hazardous Substance  
 New Jersey Workplace Hazardous Substance  
 SARA Section 313 Toxic Chemical

INGREDIENT: Piperonyl butoxide  
 CAS NUMBER: 51-03-6  
 PERCENT BY WEIGHT: = 0.5  
 Regulations: SARA Section 313 Toxic Chemical  
 State right-to-know: NJ

INGREDIENT: Aliphatic Petroleum Distillates †  
 CAS NUMBER: 64742-47-8, 64742-88-7  
 PERCENT BY WEIGHT: <10

INGREDIENT: White Mineral Oil †  
 CAS NUMBER: 8042-47-5  
 PERCENT BY WEIGHT: < 10  
 Regulations: State right-to-know: NJ

INGREDIENT: Isobutane †  
 CAS NUMBER: 75-28-5  
 PERCENT BY WEIGHT: < 20  
 Regulations: State right-to-know: IL, NJ, MA, PA

INGREDIENT: Propane †  
 CAS NUMBER: 74-98-6  
 PERCENT BY WEIGHT: < 20  
 Regulations: Clean Air Act (CAA) threshold quantity 10,000 lb  
 State right-to-know: IL, NJ, MA, PA

#### U.S. STATE REGULATORY INFORMATION

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities

\* RQ: Reportable Quantity

\*\* RCRA waste codes must be determined on a case-by-case basis (i.e., spill, processing waste, etc.).

† Alternate formulas, in which chemical noted may or may not be present.

=====

**SECTION 16 - OTHER INFORMATION**

=====

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**DISCLAIMER:** THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESS OR IMPLIED WARRANTY. BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH LABEL INSTRUCTIONS. JUDGEMENTS AS TO THE SUITABILITY OF INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES ARE NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, AS MANUFACTURER OR DISTRIBUTOR, WE EXTEND NO WARRANTIES, MAKE NO REPRESENTATIONS, AND ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

---

---