

~~6778~~ 119616

119616 Part# 61048  
BLACK FLAG FLEA, TICK, SPIDER  
3272 BLACK FLAG BRANDS  
Buyer: Jim Hebberecht

# Material Safety Data Sheet

## **Black Flag Kills Ants Spiders Fleas Ticks**

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.

### **SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Black Flag Kills Ants Spiders Fleas Ticks  
**EPA REGISTRATION NUMBER:** 73049-167-79529  
**MSDS IDENTIFICATION CODE/NO.:** ENV-0103  
**CHEMICAL NAME:** Mixture; a.i.'s, tetramethrin, permethrin, piperonyl Butoxide  
**SYNONYM(S):**  
**END-USE PRODUCT DESCRIPTION:** TetraPerm<sup>®</sup> Crawling Insect Killer is a broad spectrum water-based non-staining formula for indoor and outdoor household and commercial use in non-food/feed areas. Highly effective against many pest species including ants, carpenter ants, fire ants, bees, wasps, beetles, cockroaches, crickets, fleas, ticks and spiders. Protects up to 4 weeks.

TetraPerm is a registered trademark of Valent BioSciences Corporation

**DISTRIBUTOR**  
Black Flag Brands, LLC.  
25 Garden Street  
NY Mills, NY 13417

**EMERGENCY TELEPHONE NUMBERS**  
HEALTH EMERGENCY OR SPILL (24 hr):  
Within the United States (877) 315-9819  
Outside the United States (651) 632-6184

**PRODUCT INFORMATION**  
Black Flag Brands, LLC.:  
(800) 887-3524  
[www.BlackFlag.com](http://www.BlackFlag.com)

**EMERGENCY TELEPHONE #:** Within the United States (877) 315-9819  
Outside the United States (651) 632-6184

**MSDS NO.** ENV-0103

**Revision Number:** 0

**Revision Date:** 06/30/2004

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name (CAS #) [Chemical Name]	Weight Percent	Exposure Limit	Ref.
<b>Tetramethrin (7696-12-0) *</b> (1,3,4,5,6,7-hexahydro-1,3-dioxo-2 <i>H</i> -isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate]  Synthetic Pyrethroid	= 0.1	None established	
<b>Permethrin (52645-53-1) *</b> (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate]  Synthetic Pyrethroid	= 0.25	None established	
<b>Piperonyl butoxide (51-03-6) *</b> 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole	= 0.5	None established	
<b>Inert Ingredients Containing:**</b>	= 99.15		
<b>Hydrocarbon Solvent †</b> Various alternate formulations containing one or more of the following hydrocarbons: N-paraffinic 64771-72-8, aliphatic 64742-47-8, synthetic isoparaffinic 64642-47-8, 64742-88-7	< 10	1200 mg/m <sup>3</sup>	Manufactures recommended TWA
<b>White Mineral Oil (8042-47-5) †</b>	---	5.0 mg/m <sup>3</sup>	ACGIH TLV-TWA
		10 mg/m <sup>3</sup>	STEL (mist) ACGIH
<b>Isobutane (75-28-5) †</b> [2-Methylpropane 1,1-Dimethylethane Trimethylmethane]	< 20	1,000 ppm	ACGIH TLV-TWA
		1,000 ppm	OSHA PEL-TWA
<b>Propane (74-98-6) †</b> (LPG) Dimethyl Methane, Liquefied Petroleum Gas	---	Simple asphyxiant	ACGIH TLV-TWA D
		1,000 ppm	OSHA PEL-TWA

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\* Active Ingredient

\*\* Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling (877) 315-9819 (within the United States) or (651) 632-6184 (outside the United States) at any time.

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

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

AN OFF-WHITE AEROSOL.

CAUTION:     -     TOXIC TO FISH  
                  -     COMBUSTIBLE  
                  -     UNDER PRESSURE

#### POTENTIAL HEALTH EFFECTS

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

Inhalation and skin contact.

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

**Eye:** Slightly irritating.

**Skin:** Slightly irritating.

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

**Inhalation:** Slightly irritating.

### SECTION 4: FIRST AID MEASURES

#### EMERGENCY NUMBER

Within the United States (877) 315-9819

Outside the United States (651) 632-6184

**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.

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## **Black Flag Kills Ants Spiders Fleas Ticks**

**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.

**HINTS FOR THE PHYSICIAN:** This product contains a Pyrethroid. 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

**AUTOIGNITION:** NA

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, or Water

**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**

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**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.

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## **Black Flag Kills Ants Spiders Fleas Ticks**

**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.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EYE PROTECTION:** Not required with normal use, unless label directs otherwise.

**RESPIRATION/VENTILATION:** Use in a well ventilated area. Vacate premise during use and ventilate before reoccupying.

**SKIN PROTECTION:** Not required with normal use, unless label directs otherwise.

**OTHER/GENERAL PROTECTION:** Avoid contamination of feed and foodstuffs. Wash all food processing surfaces after treatment. Do not use in facility when in operation. Remove pets, birds and cover fish aquariums before spraying.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Off-white liquid (aerosol).
<b>ODOR:</b>	Of solvent, similar to mineral spirits.
<b>MELTING POINT:</b>	NA
<b>DENSITY:</b>	0.97 g/cm <sup>3</sup> @ 21°C
<b>SOLUBILITY (H<sub>2</sub>O):</b>	NA
<b>pH:</b>	7.1
<b>CORROSION CHARACTERISTICS:</b>	non corrosive

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**PHYSICAL STATE:** Liquid  
**DENSITY:** 8.11 lbs/gal @ 21°C  
**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

**ACUTE (Product Specific Information):** Acute toxicological data for this formulation was developed with TetraPerm® Crawling Insect Killer WBA Q5, EPA Reg No. No. 73049-172, containing .2% Tetramethrin, .5% Permethrin and 1.0% Piperonyl Butoxide.

<b>Oral Toxicity LD<sub>50</sub> (rat):</b>	> 5,000 mg/kg	IV EPA Tox Category
<b>Dermal Toxicity LD<sub>50</sub> (rabbit):</b>	> 5,000 mg/kg	IV EPA Tox Category
<b>Inhalation Toxicity LC<sub>50</sub>(rat):</b>	> 5.30 mg/L	IV EPA Tox Category
<b>Eye Irritation (rabbit):</b>	Slightly irritating	IV EPA Tox Category
<b>Skin Irritation (rabbit):</b>	Slightly irritating	III EPA Tox Category
<b>Skin Sensitization (guinea pig):</b>	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.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:** If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

**CONTAINER DISPOSAL:** Do not incinerate or puncture. If empty: Place in trash or offer for recycling if available.

**RCRA INFORMATION:**

**RCRA HAZARDOUS WASTE INGREDIENTS:** None

**SECTION 14: TRANSPORT INFORMATION**

**D.O.T. PROPER SHIPPING NAME:** Consumer Commodity

**RQ:** NA

**D.O.T. HAZARD CLASS:** ORM-D

**U.N./N.A. NUMBER:** NA

**REMARKS:** NA

**EXEMPTION REQUIREMENT:** 49 CFR 173.306

**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  
European Inventory of Existing Commercial Substances (EINECS)

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  
European Inventory of Existing Commercial Substances (EINECS)

INGREDIENT: Piperonyl butoxide  
CAS NUMBER: 51-03-6  
PERCENT BY WEIGHT: = 0.5  
Regulations: SARA Section 313 Toxic Chemical  
State right-to-know: NJ  
Canadian Domestic Substance List (DSL)  
European Inventory of Existing Commercial Substances (EINECS)

INGREDIENT: Aliphatic Petroleum Distillates †  
CAS NUMBER: 64742-47-8, 64742-88-7  
PERCENT BY WEIGHT: <10  
Regulations: Canadian DSL  
European Inventory of Existing Commercial Substances (EINECS)

INGREDIENT: White Mineral Oil †  
CAS NUMBER: 8042-47-5  
PERCENT BY WEIGHT: < 10  
Regulations: State right-to-know: NJ  
U.S. TSCA Inventory Status  
Canadian Domestic Substance List (DSL)  
European Inventory of Existing Commercial Substances (EINECS)  
Australian (AICS)  
Japanese ENCS

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

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\*\* 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.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

**HMIS HAZARD RATING** - HEALTH: 1 Slight  
- FIRE: 2 Moderate  
- REACTIVITY: 0 Negligible  
- PROTECTION: B

**NFPA HAZARD RATING** - HEALTH: 1 Slight  
- FIRE: 2 Moderate  
- REACTIVITY: 0 Negligible

**RATINGS:**

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement.

**SECTION 16: OTHER INFORMATION**

**REASON FOR ISSUE:** New company name and new EPA number  
**MSDS NUMBER:** ENV-0103  
**REVISION NUMBER:** 0  
**REVISION DATE:** 6/30/2004  
**SUPERSEDES DATE:** NA  
**EPA REGISTRY NUMBER:** 73049-167-79529

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

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.

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT BLACK FLAG BRANDS, LLC. TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

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