

# MATERIAL SAFETY DATA SHEET



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## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

EPA REG. NO. : 1021-1667-79529

**PRODUCT NAME:** Black Flag Kills Mosquitos Flies Gnats  
**PRODUCT DESCRIPTION:** Aerosol containing pressurized liquid insecticide for residential use only  
**CHEMICAL NAME:** Mixture  
**SYNONYMS:** EUP House & Garden Aerosol  
**DISTRIBUTOR:** Black Flag Brands, LLC. 25 Garden St, NY Mills NY, 13417  
**TELEPHONE M-F, 8:00-5:00 EST** 877-398-9444  
**MSDS & Product Information, 8:00-5:00 EST** 877-398-9444

**24 HOUR EMERGENCY PHONE U.S. and CANADA:**

800-887-3524

For information regarding medical emergencies or pesticide incidents, call the International Poison Center at:  
800-887-3524

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WT.
Tetramethrin[(1-Cyclohexene-1,2-dicarboximido) methyl 2,2-dimethyl -3-(2-methylpropenyl) cyclopropanecarboxylate]	007696-12-0	231-711-6	15 mg/m <sup>3</sup> (OSHA/PEL)	.20
Permethrin[(3-Phenoxyphenyl) methyl (+) cis-trans-3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate]	052645-53-1	258-067-9	Not established.	.20
Paraffinic, Naphthenic solvent	064742-47-8	265-149-8	100ppm (525 mg/m <sup>3</sup> )TWA	1-10
Liquefied Petroleum Gas	068476-85-7	Unknown	1000 ppm (1800 mg / m <sup>3</sup> ) TWA (OSHA, NIOSH, ACGIH)	5-40

PEL = Permissible Exposure Limits.  
TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).  
STEL = Short Term Exposure Limit (15 min.).

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

**HUMAN:** CAUTION

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

**SKIN:** CAUTION. Can cause a burning sensation on more sensitive areas (face, eyes, mouth).

**INGESTION:** CAUTION. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

**INHALATION:** CAUTION. Excessive inhalation can cause nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

**CHRONIC EFFECTS:** None known

**SAFETY:** CONTENTS UNDER PRESSURE. Do not use near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° (54.4°C) may cause bursting. Avoid breathing vapors and spray mists of this product.

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## 4. FIRST AID MEASURES

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### FIRST AID PROCEDURES:

- EYES:** Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.
- SKIN:** Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention. Wash clothing separately before reuse.
- INHALATION:** Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and seek medical attention immediately.
- INGESTION:** If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**NOTE TO PHYSICIANS:** None

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## 5. FIRE FIGHTING MEASURES

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### FLAMMABLE PROPERTIES:

**FLASH POINT:** N/A °F **METHOD:** Fisher Tag Closed Cup

This product is classified as non-flammable by flame extension,

### FLAMMABLE LIMITS:

**LOWER FLAMMABLE LIMIT:** not established.

**UPPER FLAMMABLE LIMIT:** not established.

**AUTOIGNITION TEMPERATURE:** not established.

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

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

**FIRE FIGHTING INSTRUCTIONS:** Treat as a 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. Contain the run-off, if possible, for proper disposal.

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## 6. ACCIDENTAL RELEASE MEASURES:

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**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

**WASTE DISPOSAL METHOD:** Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

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## 7. HANDLING AND STORAGE

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**HANDLING:** Do Not use near an open flame or ignition source. Do not puncture or incinerate. Take prudent precautions to avoid contact with skin eyes and clothing. Avoid breathing spray mist or vapors. 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 absence of proper mechanical ventilation. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label.

**STORAGE:** Contents under pressure. Keep away from heat, sparks and open flame. Exposure to Temperatures over 130°F (54.4 °C) may cause bursting. Store containers upright and closed. Store in areas that are cool, dry and well ventilated. Keep away from heat, ignition sources, strong oxidizers and strong acids and bases. Emptied containers may retain product residues.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, 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 and using the toilet.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMITS:** Not established by OSHA or ACGIH (See section 2 for Individual Ingredients)

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

**RESPIRATORY PROTECTION:** Not normally required. Take precautions to avoid breathing sprays and mists of this product.

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

**EYE PROTECTION:** Take prudent precautions to avoid contact with eyes.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Contents of aerosol has an off white thick creamy texture.

**ODOR:** Petroleum distillate odor

**PHYSICAL STATE:** Pressurized Liquid

**VAPOR PRESSURE:** Not established

**VAPOR DENSITY:** Not established

**BOILING POINT:** Not established

**MELTING POINT:** Not applicable

**SOLUBILITY IN WATER:** Water soluble

**SPECIFIC GRAVITY:** .989 (Non-Volatiles)

**COLOR, (GARDENER):** 1

**pH:** 7.1

**VISCOSITY:** 8280 cps. @ 24°C.

**REFRACTIVE INDEX:** Not available

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## 10. STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable.

**INCOMPATIBILITY:** Strong acidic, alkaline materials. Not compatible with strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE STUDIES:

#### INGESTION:

Acute Oral LD<sub>50</sub> (rat) Not established

#### SKIN:

Acute Dermal LD<sub>50</sub> (rabbit) Not established

Primary skin irritation (rabbit): .04

Dermal Sensitization (guinea pig): Not a dermal sensitizer

#### INHALATION:

Acute Inhalation LC<sub>50</sub> (rat) 4 hrs. >3.62 mg /l

#### EYE:

Primary eye irritation(rabbit): Conjunctival irritation in half of test subjects which cleared in 24 hours.

**SUBCHRONIC:** Not Available

**CHRONIC:** Not Available

#### CARCINOGENICITY:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP or OSHA as being carcinogens.

## 12. ECOLOGICAL INFORMATION

### PERSISTENCE IN THE ENVIRONMENT

**BIODEGRADATION:** Unknown

**CHEMICAL DEGRADATION:** Unknown

**TOXIC EFFECTS ON ORGANISMS::** Unknown

**FISH: LC<sub>50</sub>** Not established

**BIRD: LC<sub>50</sub>** Not established

**TOXICITY TO USEFUL INSECTS:** Unknown

## 13. DISPOSAL CONSIDERATIONS

### RCRA \ CERCLA HAZARDOUS WASTE:

#### INGREDIENT

None

**RCRA ID#: CERCLA RQ-VALUE**

**DISPOSAL METHOD:** This product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

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## 14. TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION(DOT) INFORMATION:

PROPER SHIPPING NAME: Consumer Commodity  
HAZARD CLASS: ORM-D  
IDENTIFICATION NUMBER(UN or NA):  
PACKING GROUP:

### INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Consumer Commodity, 9, UN 8000  
IMO DESCRIPTION (IMDG CODE): Not available.

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

#### SARA TITLE III:

SECTION 302: Not listed  
SECTION 313: This product contains the following toxic chemicals of the subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#:	CHEMICAL NAME:	% BY WEIGHT:
007696-12-0	Tetramethrin[(1-Cyclohexene-1,2-dicarboximido) methyl 2,2-dimethyl -3-(2-methylpropenyl) cyclopropanecarboxylate]	.2
052645-53-1	Permethrin[(3-Phenoxyphenyl) methyl (+) cis-trans-3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate]	.2

### STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC): This Product contains less than 33% VOCs.

## 16. OTHER INFORMATION

### HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in sections 7 and 8 of this MSDS.

HMIS RATINGS: Health 1  
Flammability 4  
Reactivity 1

*The data contained herein is based on information currently available to Black Flag Brands, LLC., and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Black Flag Brands, LLC., assumes legal responsibility.*

Material Safety Data Sheet prepared by T.A. Lennan

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