



www.blackflag.com

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Black Flag Kills Mosquitos Flies Gnats
Product Codes: 61050 (EPA REG. NO. 1021-1667-79529)
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, 8:30 AM – 8 PM EST
Medical Emergency: 1-888-740-8712 (24 Hour)
Transportation Emergency: 1-800-424-9300 (CHEMTREC 24 Hour)
Date: 1/19/2009

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION. Contents under pressure. Do not use or store near heat, sparks, open flame. Do not expose to temperatures above 130°F (54.4°C), as bursting may occur. Harmful if absorbed through the skin. Avoid contact with skin, eyes, and clothing.

DO NOT puncture or incinerate container. Follow the "Directions For Use" on the label very carefully.

POTENTIAL HEALTH EFFECTS

EYES: Causes temporary irritation, tearing, and blurred vision.

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: May be harmful if swallowed.

INHALATION: Excessive inhalation of mists can cause nasal and respiratory irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: None known.

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>WEIGHT %</u>	<u>CAS NUMBER</u>
Permethrin	0.2	52645-53-1
Tetramethrin	0.2	7696-12-0
Petroleum Distillates	< 10	64742-47-8
Liquefied Petroleum Gas	< 25	68476-86-8

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

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: 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 pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE CLASS: This aerosol is NOT classified as FLAMMABLE by the flame extension test method described in 16 CFR 1500.45.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

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

EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 130°F (54.4°C) may cause bursting.

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

SENSITIVITY TO IMPACT: Forceful impacts can cause damage to aerosol unit and may cause a bursting or explosion hazard.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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 such as sand, or vermiculite. 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, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains pyrethroids, 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.

SECTION 7 – HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Contents under pressure -DO NOT puncture or incinerate container. Do not use or store near heat, sparks, open flame, or any other ignition sources. Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. 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, preferably locked storage area. Exposure to temperatures above 130°F (54.4°C) may cause bursting. Store containers upright and closed. Keep away from heat, ignition sources, and strong oxidizers. Emptied containers may retain product residues. DO NOT puncture or incinerate container.

KEEP OUT OF REACH OF CHILDREN

NFPA 30B: Level 1 Aerosol

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

<u>CHEMICAL NAME</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>OTHER</u>
	<u>PEL</u>	<u>TLV</u>	
Permethrin	TWA None	None	supplier recommends 10 mg/m3

Tetramethrin	TWA	None	None
Petroleum Distillates	TWA	None	200 mg/m ³ (skin)
Liquefied Petroleum Gas	TWA	1000 PPM (1800 mg/m ³)	1000 PPM (1800 mg/m ³)

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

PHYSICAL STATE: Pressurized liquid.

ODOR: Petroleum Distillates.

APPEARANCE: Milky white liquid.

pH: 7.1 (mixture without propellant)

VAPOR DENSITY: Heavier than air.

SOLUBILITY IN WATER: Not available.

SPECIFIC GRAVITY: 0.989 at 20°C (68°F) (mixture without propellant)

VISCOSITY: 8280 CPS at 24°C (75.2°F) Brookfield (mixture without propellant)

VOC: < 25.0 %

SECTION 10 – STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

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

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD50: > 2.0 gm/kg (Albino rabbit)

ORAL LD50: > 5 gm/kg (Albino rat)

INHALATION LC50: 3.62 mg/L (Rats exposed for 4 hours to test atmosphere)

EYE EFFECTS: Irritation clearing in less than 24 hours.

SKIN EFFECTS: No irritation noted at 72 hours. Irritation Index = 0.04

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

GENERAL COMMENTS: Some of the above toxicity data was bridged from the concentrate, that is used in manufacturing this end-use product.

CARCINOGENICITY: 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.

SECTION 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Environmental data not available for this product.

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and other aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

IF EMPTY: Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency for disposal instructions.

RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

SECTION 14 - TRANSPORT INFORMATION

U.S. DOT (ROAD OR RAIL):

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

UN NUMBER:

PACKING GROUP:

AIR / WATER / INTERNATIONAL TRANSPORT:

PROPER SHIPPING NAME: AEROSOLS, NON-FLAMMABLE, N.O.S.

HAZARD CLASS: 2.2

UN NUMBER: 1950

PACKING GROUP:

SECTION 15 - REGULATORY INFORMATION

UNITED STATES SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** Yes **REACTIVITY:** No **ACUTE:** Yes

313 REPORTABLE INGREDIENTS: This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

302/304 EMERGENCY PLANNING

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

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

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.

REGULATIONS

STATE REGULATIONS VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 25% VOC's.

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.
