

Black Flag One Shot Wasp & Hornet Killer

Date Issued: 12/5/2007 Date Revised: 1/30/2008

Revision No.: 1

EPA Reg. No.: 1021-1852-79529

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Black Flag One Shot Wasp & Hornet Killer

Description: An Aerosol Insecticide for Killing Wasps & Hornets

EPA Reg. No.: 1021-1852-79529

SOLD BY:

Black Flag Brands, LLC 3300 Corporate Drive Joliet, IL 60431

Customer Service: (800) 887-3524

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC U.S. and CANADA: (800) 424-9300 CHEMTREC All Other Areas: (703) 527-3887

Emergency Phone: (888) 740-8712

COMMENTS: Black Flag Brand's hours of operation are 8:00 am to 5:00 pm EST

For information regarding MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day at 1-888-740-8712.

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	WT. %	CAS#	EINECS#
Pyrethrins	0.025	008003-34-7	232-319-8
Piperonyl Butoxide	0.05	000051-03-6	200-076-7
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	0.084	000113-48-4	204-029-1
Esfenvalerate	0.05	066230-04-4	Not Available

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

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION. Contents under pressure. Do not use or store near heat, sparks, or 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.

POTENTIAL HEALTH EFFECTS:

EYES: May cause 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.

CHRONIC EFFECTS: None known.



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COMMENTS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES:

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

Under fire conditions this product may support combustion and may decompose to give off toxic

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

advice.

NOTE TO PHYSICIAN: For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of

Tocopherol Acetate (Vitamin E).

Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION

EXPLOSION HAZARDS:

FLAMMABLE CLASS: Level 1 Aerosol (NFPA 30B)

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

PRODUCTS: gases such as Hydrogen Cyanide, carbon monoxide, carbon dioxide and nitrogen oxides.

FIRE FIGHTING INSTRUCTIONS: 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: 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.



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LARGE SPILL: 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 Pyrethrins and 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 IN OR AROUND ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

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.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)										
		EXPOSURE LIMITS								
		OSH	A PEL	ACGIH TLV		Supplier OEL				
Chemical Name		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3			
Pyrethrins	TWA		5		5					
Piperonyl Butoxide	TWA	None		None		None				
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	TWA	None		None		None				
Esfenvalerate	TWA	None		None		[1]	2			

OSHA TABLE COMMENTS:

1. Skin

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.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Pressurized Liquid

ODOR: Slight sweet-smell.

APPEARANCE: Milky emulsion.

pH: 6.5@ 10% in water.

pH measurement is for the aerosol contents less the compressed gas propellant.

VAPOR PRESSURE: Not Available VAPOR DENSITY: Heavier than air. FREEZING POINT: Not Available

SOLUBILITY IN WATER: Partially miscible in water.

SPECIFIC GRAVITY: 0.978 (Water = 1)

VISCOSITY: 1591.67CPS at 24°C (75.2°F) Brookfield on aerosol contents less the compressed gas propellant.

(VOC): <1.000 %

COMMENTS:

WATER SOLUBILITY: Water Solubility analysis is for the aerosol contents less the compressed gas propellant.

SPECIFIC GRAVITY: Specific Gravity is for the aerosol contents less the compressed gas propellant.

SECTION 10: STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

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

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE

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

ORAL LD₅₀ (albino rat): 1.11 gm/kg

INHALATION LC₅₀: 4.10 mg/L (Rats exposed for 4 hours to test atmosphere.)

EYE EFFECTS: Irritation cleared within 48 hours for the un-rinsed eye, and within 24 hours for the rinsed eye.

SKIN EFFECTS: No irritation noted at 72 hours. Irritation Index = 0.5

SENSITIZATION: May possibly be a weak dermal sensitizer in albino guinea pigs.

GENERAL COMMENTS: Some or all of the toxicity data reported above was bridged from a substantially similar formula.

COMMENTS: 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.

Carcinogenicity/ Oncogenicity-Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in the animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans.



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Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceed anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

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.

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: This product contains the following RCRA/CERCLA Hazardous wastes/substances:

Component, RCRA ID#, Cercla RQ

Pyrethrins, N/A, 1 Lb.

SECTION 14: TRANSPORT INFORMATION

BY LAND: DOT PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY, ORM-D BY WATER: DOT PROPER SHIPPING DESCRIPTION: UN1950, Aerosols, 2.2, LTD QTY

BY AIR: DOT PROPER SHIPPING DESCRIPTION: UN1950, Aerosols, non-flammable, 2.2, LTD QTY

(Packing instruction Y203 applies)

SECTION 15: REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

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).



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See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).

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.

STATE REGULATIONS

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 1% VOC's.

SECTION 16: OTHER INFORMATION

REVISION SUMMARY: Revision #1. This MSDS replaces the December 5, 2007 MSDS. Any changes in information are as follows: Section 14 has been updated.

HMIS HAZARD RATING

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

HMIS RATING NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

COMMENTS: 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.