



Black Flag Brands, LLC
 3300 Corporate Drive
 Joliet, Illinois 60431
 www.blackflag.com

MATERIAL SAFETY DATA SHEET

Black Flag Commercial Comercial Wasp Avispas Hornet Avispones Yellow Jacket Avispas Chaqueta Amarilla Killer

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Black Flag Commercial Comercial Wasp Avispas Hornet Avispones Yellow Jacket Avispas Chaqueta Amarilla Killer

Description: A Pressurized Aerosol Insecticide for Killing Wasps and Hornets
EPA Reg. No.: 1021-1649-79529

SOLD BY:

Black Flag Brands, LLC
 3300 Corporate Drive
 Joliet, Illinois 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 #
d-Phenothrin (SUMITHRIN®)	0.125	026002-80-2	247-404-5
Tetramethrin (NEO-PYNAMIN®)	0.2	007696-12-0	231-711-6
Petroleum Distillates	50-95	64742-47-8	265-149-8

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

SECTION 3: HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION: FLAMMABLE AEROSOL. Contents under pressure. DO NOT use or store near heat, sparks, open flame, or any other ignition sources. DO NOT expose to temperatures above 130°F (54.4°C) as bursting may occur. Harmful if absorbed through the skin. Causes moderate eye irritation. Contains petroleum distillates - Vomiting may cause aspiration pneumonia. Avoid contact with skin, eyes, and clothing. DO NOT puncture or incinerate container. Follow the "Directions For Use" on the label very carefully.

- EYES:** Causes moderate eye irritation.
- 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. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe lung injury.
- INHALATION:** Excessive inhalation of mists can cause nasal and respiratory irritation.
- CHRONIC EFFECTS:** None known.



Black Flag Brands, LLC
 3300 Corporate Drive
 Joliet, Illinois 60431
 www.blackflag.com

MATERIAL SAFETY DATA SHEET

**Black Flag Commercial Comercial Wasp Avispas Hornet
 Avispones Yellow Jacket Avispas Chaqueta Amarilla
 Killer**

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

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.

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.

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.

NOTE TO PHYSICIAN: Contains Pyrethroids and Petroleum Distillates; vomiting may pose an aspiration pneumonia hazard. 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: Level 1 Aerosol (NFPA 30B)

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

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

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

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Treat as an 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.

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. Clean spill area of residues and absorbent.



Black Flag Brands, LLC
3300 Corporate Drive
Joliet, Illinois 60431
www.blackflag.com

MATERIAL SAFETY DATA SHEET

**Black Flag Commercial Comercial Wasp Avispas Hornet
Avispones Yellow Jacket Avispas Chaqueta Amarilla
Killer**

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

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.

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/provincial and federal/national 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 containers upright and closed. Store in areas that are cool, dry, and well-ventilated. Exposure to temperatures at or above 130°F (54.4°C) may cause bursting. Keep away from heat, open flame, any ignition sources, and strong oxidizers. Emptied containers may retain product residues. DO NOT puncture or incinerate container.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
d-Phenothrin (SUMITHRIN®)	TWA	None		None		None	
Tetramethrin (NEO-PYNAMIN®)	TWA	15		10 ^[1]		None	
Petroleum Distillates	TWA					166 ^[2]	1200

OSHA TABLE COMMENTS:

- Dust
- Based on total hydrocarbon composition.

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.



Black Flag Brands, LLC
3300 Corporate Drive
Joliet, Illinois 60431
www.blackflag.com

MATERIAL SAFETY DATA SHEET

Black Flag Commercial Comercial Wasp Avispas Hornet
Avispones Yellow Jacket Avispas Chaqueta Amarilla
Killer

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Pressurized Liquid

ODOR: Odor of Petroleum Distillates.

APPEARANCE: Milky emulsion.

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Available

SOLUBILITY IN WATER: Immiscible in water.

SPECIFIC GRAVITY: 0.786 (Water = 1)

VISCOSITY: 8.5CPS at 22°C (71.6°F) Brookfield on aerosol contents less the compressed gas propellant.

(VOC): <2.000%

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): > 5.0 gm/kg

INHALATION LC₅₀: > 5.14 mg/L

Rats exposed for 4 hours to test atmosphere.

EYE IRRITATION: Irritation clearing in 72 hours.

SKIN IRRITATION: Slight irritation at 72 hours. Produced a primary skin Irritation Index of 1.11

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

GENERAL 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.



Black Flag Brands, LLC
3300 Corporate Drive
Joliet, Illinois 60431
www.blackflag.com

MATERIAL SAFETY DATA SHEET

**Black Flag Commercial Comercial Wasp Avispas Hornet
Avispones Yellow Jacket Avispas Chaqueta Amarilla
Killer**

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Environmental data not available for this product.

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and other aquatic organisms. 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 of 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

BY LAND: DOT PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY, ORM-D

BY WATER: DOT PROPER SHIPPING DESCRIPTION: UN1950, Aerosols, 2.1, LTD QTY

BY AIR: DOT PROPER SHIPPING DESCRIPTION: UN1950, Aerosols, flammable, 2.1, 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: Yes **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.



Black Flag Brands, LLC
 3300 Corporate Drive
 Joliet, Illinois 60431
 www.blackflag.com

MATERIAL SAFETY DATA SHEET

**Black Flag Commercial Comercial Wasp Avispas Hornet
 Avispones Yellow Jacket Avispas Chaqueta Amarilla
 Killer**

Date Issued: 9/27/2007
Date Revised: 1/30/2008
Revision No.: 1
EPA Reg. No.: 1021-1649-79529

STATE REGULATIONS

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 2% VOC's.

SECTION 16: OTHER INFORMATION

REVISION SUMMARY: Revision #1. This MSDS replaces the Sepetmber 27, 2007 MSDS. Any changes in information are as follows: In Section 1 there is a change of address. Section 14 was revised to include updated AIR and VESSEL information.

CLASSIFICATION SYSTEMS:

HMIS HAZARD RATING

HEALTH:	2
FLAMMABILITY:	2
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

HMIS RATINGS 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.