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## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Black Flag One Shot Ant & Roach Killer 2  
**Product Codes:** 61154, 61155 (EPA REG. NO. 1021-1608-79529)  
**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, 9-5 EST  
**Medical Emergency:** 1-888-740-8712 (24 Hour)  
**Transportation Emergency:** 1-800-424-9300 (CHEMTREC 24 Hour)  
**Date:** 5/29/2008

### SECTION 2 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** CAUTION. 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. 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:** Can 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.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE CHRONIC EFFECTS:** None known.

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

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>WEIGHT %</u>	<u>CAS NUMBER</u>
Pyrethrins	0.05	8003-34-7
Permethrin	0.2	52645-53-1
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	0.25	113-48-4
Petroleum Distillates	1 - 5	64742-47-8
Liquefied Petroleum Gas	5 - 20	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 pyrethrin/ pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

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## SECTION 5 - FIRE FIGHTING MEASURES

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**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 Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxide's. Chlorine gas and Hydrogen Chloride may also be formed under fire conditions.

**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.

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## SECTION 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.

### 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.

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## SECTION 7 – HANDLING AND STORAGE

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**GENERAL PROCEDURES:** DO NOT USE IN OR AROUND ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD. 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.

**NFPA 30B:** Level 1 Aerosol

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## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

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### EXPOSURE GUIDELINES:

CHEMICAL NAME	OSHA		ACGIH
	PEL	SKIN	TLV
Pyrethrins	TWA	5 mg/m <sup>3</sup>	5 g/m <sup>3</sup>
Permethrin	TWA	None	None
MGK®-264 (N-Octyl Bicycloheptene	TWA	None	None

Dicarboximide)			
Petroleum Distillates	TWA	None	None
Liquefied Petroleum Gas	TWA	1000 ppm	1000 ppm

**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:** Liquefied gases and liquid.

**ODOR:** Odor of Petroleum Distillates.

**APPEARANCE:** Milky emulsion.

**pH:** 6.85 **Notes:** pH measurement is for the aerosol contents less the compressed gas propellant (i.e., Non-Volatiles).

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

**SOLUBILITY IN WATER:** Partially miscible in water. **Notes:** Water Solubility analysis is for the aerosol contents less the compressed gas propellant (i.e., Non-Volatiles).

**SPECIFIC GRAVITY:** 0.994 (Water = 1) at 20°C (68°F) **Notes:** Specific Gravity is for the aerosol contents less the compressed gas propellant (i.e., Non-Volatiles).

**VISCOSITY #1:** 5.2 CPS at 23°C (73.4°F) Brookfield on Non-Volatiles

**VOC:** < 12.0 %

## 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.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May decompose under fire or extreme temperatures to give off toxic Chlorine gas, Hydrogen Chloride, as well as Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**ACUTE DERMAL LD50:** > 2.0 gm/kg **Notes:** Albino rabbit.

**ORAL LD50:** > 5.0 gm/kg **Notes:** Albino rat.

**INHALATION LC50:** > 5.88 mg/L **Notes:** Rats exposed for 4 hours to test atmosphere.

**EYE EFFECTS:** Irritation clearing in 24 hours.

**SKIN EFFECTS:** No irritation at 72 hours. Irritation Index = 0.13

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to 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.

## 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 discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without

previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes.

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### SECTION 13 – DISPOSAL CONSIDERATIONS

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#### DISPOSAL METHOD:

IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**RCRA/EPA WASTE INFORMATION:** This product contains the following RCRA/CERCLA Hazardous wastes/substances:

Component, RCRA ID#, Cercla RQ

Pyrethrins, N/A, 1 Lb.

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### SECTION 14 - TRANSPORT INFORMATION

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#### U.S. DOT (ROAD OR RAIL):

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

**AIR / WATER / INTERNATIONAL TRANSPORT:** NOT AVAILABLE

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

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### SECTION 15 - REGULATORY INFORMATION

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**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).

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.

#### REGULATIONS

##### STATE REGULATIONS VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 12% VOC's.

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### SECTION 16 - OTHER INFORMATION

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**DISCLAIMER:** AS THE HANDLING AND USE OF PRODUCTS UNDER USER'S CONDITIONS ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, IS MADE CONCERNING THIS PRODUCT. THE USER ASSUMES ALL RISK OF USE OR HANDLING WHETHER OR NOT IN ACCORDANCE WITH ANY DIRECTIONS OR SUGGESTIONS OF THE SUPPLIER. SELLER SHALL NOT BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR LOSS OR DAMAGES DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF OUR PRODUCTS, FROM BREACH OF ANY WARRANTY OR FROM ANY OTHER CAUSE, THE EXCLUSIVE REMEDY AGAINST THE SELLER BEING TO REQUIRE REPLACEMENT OR REPAIR OF DEFECTIVE GOODS.

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