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MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Black Flag Bed Bug Flea Killer
Product Codes: 61255
EPA REG. NO.: 1021-1767-79529
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: 10/26/2009

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. DO NOT apply this product in or on electrical equipment due to possible shock hazard. Follow the "Directions For Use" on the label very carefully.

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.

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> |
|--------------------------------------|-----------------|-------------------|
| N-Octyl Bicycloheptene Dicarboximide | 1.6 | 113-48-4 |
| d-Phenothrin | 0.4 | 26002-80-2 |
| Petroleum Distillates | < 3 | 64742-47-8 |
| Liquefied Petroleum Gas | 10 - 15 | 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 Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxide's.

EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 130 F may cause bursting.

FIRE FIGHTING PROCEDURES: 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.

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. 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 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. Do not apply this product in or on electrical equipment due to possible 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 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

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

| <u>CHEMICAL NAME</u> | | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|--------------------------------------|-----|-----------------------|-----------------------|
| N-Octyl Bicycloheptene Dicarboximide | TWA | None | None |
| d-Phenothrin | TWA | None | None |
| Petroleum Distillates | TWA | None | None |
| Liquefied Petroleum Gas | TWA | 1000 ppm (1800 mg/m3) | 1000 ppm (1800 mg/m3) |

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: Sweet Odor.

APPEARANCE: Milky, white liquid

pH: 7.43 Note: pH measurement is for the liquid component.

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Available

SOLUBILITY IN WATER: Partially miscible in water.

SPECIFIC GRAVITY: 0.988 (Water = 1) at 20°C (68°F) Note: Specific Gravity is for the liquid component.

VISCOSITY: 4.83 CPS at 25°C (77°F) Brookfield

VOC: < 12 %

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: > 2.0 gm/kg (Albino rabbit)

ORAL LD50: > 5.0 gm/kg (rat)

INHALATION LC50: The Acute Inhalation LC50 of this material places it in EPA Toxic Category IV.

EYE EFFECTS: Irritation cleared within 48 hrs (unrinsed); Irritation cleared within 24 hours (rinsed).

SKIN EFFECTS: Slight irritation at 72 hours. Irritation index = 2.2

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

GENERAL COMMENTS: The above toxicity data was bridged from the concentrate used in the manufacture of this end-use product.

CHRONIC EFFECTS: 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

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ENVIRONMENTAL DATA: Environmental data not available for this product.

ECOTOXICOLOGICAL INFORMATION: Do not apply directly to water. 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: 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:

None

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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: ORM-D

ID NUMBER:

PACKING GROUP:

AIR / WATER / INTERNATIONAL TRANSPORT:

NOT AVAILABLE

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SECTION 15 - REGULATORY INFORMATION

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REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

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 subject to CERCLA Section 103(a)(40 CFR 302.4).

STATE REGULATIONS VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 9% VOC's.

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SECTION 16 - OTHER INFORMATION

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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.

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