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MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Black Flag Triple Action Concentrated Fogger
Product Codes: #61123, #61204 (EPA REG. NO. 73049-455-79529)
Product Use: Total release aerosol to kill insects; temporarily reduces airborne bacteria.
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: 1-866-767-5047 (24 Hour)
Transportation Emergency: 1-800-424-9300 (CHEMTREC 24 Hour)
Date: 12/20/2008

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

- Flammable.
- Causes moderate eye irritation.
- Avoid contact with eyes, skin and clothing
- Contents under pressure.
- Keep out of reach of children

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Inhalation, eye and skin contact

Signs and Symptoms of Systemic Effects: The toxicity of this formulation has not been fully assessed.

Acute Eye Contact: Causes moderate eye irritation.

Acute Skin Contact: This product may be minimally toxic when absorbed through the skin.

Acute Ingestion: This product may be harmful if swallowed. This product is minimally toxic when ingested.

Acute Inhalation: This product may be harmful if inhaled in excess.

Chronic Toxicity (including cancer): Cypermethrin is considered to have a low oncogenic potential.

Potentially Aggravated Medical Conditions: None known

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>WEIGHT %</u>	<u>CAS NUMBER</u>
Cypermethrin*	0.824	52315-07-8
Triethylene glycol*	5.147	112-27-6
Isopropanol	< 10	67-63-0

COMMENTS: * Active Ingredients. Ingredients not identified are proprietary or non-hazardous. The hazards associated with the other ingredients are addressed in this document. Values are not product specifications.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: 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 CONTACT: 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: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: This product contains a Pyrethroid pesticide. If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy. If large amounts are ingested and vomiting has not occurred emesis should be induced with supervision. Keep patients head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered. Do not administer milk, cream or other substance containing vegetable or animal fats, which enhance the absorption of lipophilic substances. If localized paresthesia develops, the site should be thoroughly washed with soap and water. Cold cream can be applied to help diminish the effect.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: - 58° F (estimated)

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, or water.

FLAMMABLE LIMITS IN AIR - LOWER (%): No data available

FLAMMABLE LIMITS IN AIR - UPPER (%): No data available

FIRE & EXPLOSION HAZARDS: Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause fire or explosion if not used properly.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

HAZARDOUS COMBUSTION PRODUCTS: May form toxic materials: Carbon dioxide, carbon monoxide, various hydrocarbons, etc.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

If it is safe to do so:

- Evacuate non-essential personnel from the area to prevent human exposure.
- Remove all sources of ignition.
- Ventilate area, especially low areas where vapors may accumulate.
- Stop the source of the spill. Contain the spill to prevent further contamination of the soil, surface water, or ground water.
- May produce slippery conditions.

GENERAL AND DISPOSAL: Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. For additional spill response information refer to the **North American Emergency Response Guidebook**. Ensure that the disposal is in compliance with all Federal, State, Provincial, and local regulations, (see Section 15 for applicable RCRA Number, if any). Refer to Section 14 for applicable Reportable Quantity (RQ) and other regulatory requirements.

FOR SPILLS OR LEAKS:

CONTAINMENT: If can is punctured or leaking, soak up liquid with an absorbent material such as sand, sawdust earth, fuller's earth, etc. Place in an approved chemical waste container for disposal. Do not allow spill material to enter any body of water.

CLEANUP: Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace of residue. Do not allow water to contaminate water supplies or sewers.

SECTION 7 – HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

HANDLING PRECAUTIONS: Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Avoid contamination of feed and foodstuffs. Contents under pressure. Do not use near heat or open flame. Do not puncture or incinerate container. Turn off all ignition sources. Remove pets and birds; tightly cover and turn off or remove fish aquariums.

STORAGE: Do not contaminate water, food or feed by storage or disposal. Keep pesticide only in original container. Store in a cool, dry area away from children and pets. Product should be stored in a locked storage area. Exposure to temperatures above 130° F may cause bursting. Do not store at temperatures below 32°F.
KEEP OUT OF REACH OF CHILDREN.

NFPA 30B: Level 1 Aerosol

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL NAME	OSHA		ACGIH
		PEL	TLV
Cypermethrin (52315-07-8)	TWA	None	None (recommend 45 mg/m3 TWA; 100 mg/m3 STEL)
Triethylene glycol (112-27-6)	TWA	None	None
Isopropanol (67-63-0)	TWA	400 ppm (980 mg/m3)	200 ppm
	STEL	500 ppm (1225 mg/m3)	400 ppm

EYES: Not required with normal use, unless label directs otherwise.

RESPIRATORY PROTECTION: Vacate premise during use and ventilate before reoccupying.

SKIN PROTECTION: Not required with normal use, unless label directs otherwise.

OTHER/GENERAL PROTECTION: Avoid contamination of feed and foodstuffs. Wash all food contact surfaces after treatment. Do not use when facility is in operation.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid (aerosol)

COLOR: Translucent yellow

ODOR: No characteristic odor

BOILING POINT: No data available

DENSITY: 0.9213 g/ml @ 25°C (prefill), 7.6836 lb/gal

pH: 4.5 @ 25°C (prefill)

VISCOSITY: 7.1164 cps @ 20°C (prefill)

SOLUBILITY: No data available

VOC: < 45.0 %

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal ambient temperatures.

INCOMPATIBILITY: Strong acids and oxidizing agents

OXIDATION/REDUCTION PROPERTIES: Product does not have the potential to act as a strong oxidizing or reducing agent.

EXPLODABILITY: No data available

HAZARDOUS POLYMERIZATION : Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials such as: Carbon dioxide, carbon monoxide, various hydrocarbons, etc.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE

Oral Toxicity LD50 (rats)	> 5000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD50 (rabbits)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC50 (rats)	> 2.11 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Sensitizer	EPA Tox Category	Not applicable

TOXICITY OF ACTIVE INGREDIENT: Cypermethrin

Acute Effects from Overexposure: Large doses of cypermethrin ingested by laboratory animals produced signs of toxicity including loss of motor control, tremors, decreased activity, urinary incontinence, incoordination, increased sensitivity to sound, and convulsions. Experience to date indicates that contact with cypermethrin may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

CHRONIC/CARCINOGENICITY: Liver enlargement is often noted in laboratory animals that have ingested large doses of cypermethrin during their life span. Cypermethrin was not carcinogenic in male or female rats or male mice. However, it caused an increase in benign lung tumors in female mice at 1600 ppm in the diet. The EPA concluded on a weight of evidence approach the cypermethrin represents a low oncogenic potential to female mice at this dose level (approximately 228 mg/kg/day).

REPRODUCTION: In studies with laboratory animals, cypermethrin did not cause reproductive toxicity.

DEVELOPMENTAL TOXICITY: In studies with laboratory animals, cypermethrin did not cause teratogenicity.

MUTAGENICITY: An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

CANCER LISTS: NTP: None IARC: Isopropanol (Group 3) OSHA: None

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES: Cypermethrin is considered highly toxic to fish and aquatic arthropods, and has LC50 values which range from 0.004 ug/L to 3.6 ug/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment.

AVIAN: Cypermethrin is slightly toxic to birds and oral LD50 values are greater than 10,248 mg/kg.

ENVIRONMENTAL FATE: Cypermethrin is rapidly degraded in soil with a half-life of 2 to 4 weeks. It is readily hydrolyzed under basic conditions (pH = 9), but under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. Cypermethrin has a high affinity for organic matter and a Log Pow of 5.0; yet, because of the ease with which the material undergoes degradation, it has a very low potential for bioconcentration (BCF = 17), and is not mobile in soil.

OTHER ENVIRONMENTAL INFORMATION: This product is extremely toxic to fish and aquatic invertebrates. Do not contaminate water when disposing of equipment washwaters. For terrestrial uses, do not apply directly to any body of water, or to any areas where surface water is present or to intertidal areas below mean high water mark. Care should be used when spraying to avoid fish or reptile pets by removing or covering fish tanks before spraying.

SECTION 13 – DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL: Do not reuse this container. Do not incinerate or puncture. If empty: Place in trash or offer for recycling if available. This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the country. Before offering for recycling, empty the can by using the product according to the label.

DISPOSAL METHODS: Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

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

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

SECTION 15 - REGULATORY INFORMATION

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

311/312: FIRE: Yes PRESSURE GENERATING: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

SARA 313 INGREDIENTS: Isopropanol (67-63-0)

SARA 302 INGREDIENTS: None

TSCA STATUS: Registered pesticide exempt from TSCA.

STATE REGULATIONS

VOLATILE ORGANIC COMPOUNDS (VOC): This product contains less than 45% VOC's.

CALIFORNIA PROP 65 INGREDIENTS: None

SECTION 16 - OTHER INFORMATION

NFPA Ratings: Health: 1 Flammability: 4 Reactivity: 0

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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