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## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Black Flag Home Insect Control Concentrate 2  
**EPA Reg. No.:** 9688-302  
**Product Code:** 11011  
**Product Use:** 16 oz. Refill Pesticide Concentrate  
**Supplier:** Chemsico, Division of United Industries Corp.  
**Address:** P.O. Box 142642, St. Louis, MO 63114  
**Product Inquiries:** 1-800-887-3524  
**Medical Emergency:** 1-800-887-3524 (24 Hour)  
**Transportation Emergency:** 1-800-424-9300 (CHEMTREC 24 Hour)  
**Date:** April 4, 2012

### SECTION 2 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### CAUTION

- Avoid contact with skin and clothing.
- Skin contact may result in a transient tingling sensation and reddening of the skin.
- May be harmful if inhaled.
- Toxic to fish.
- Toxic to aquatic invertebrates and bees.
- Keep out of reach of children.

#### POTENTIAL HEALTH EFFECTS

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

**Signs and Symptoms of Systemic Effects:** Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of the limbs, unconsciousness, convulsions and coma (very high doses).

**Acute Eye Contact:** Minimally irritating

**Acute Skin Contact:** May be minimally irritating. Avoid contact with skin. This product contains a pyrethroid. Skin contact

with pyrethroids can result in a temporary burning, tingling or itching sensation.

**Acute Ingestion:** This product may be harmful if swallowed.

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

**Chronic Toxicity (including cancer):** This product is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or ACGIH.

**Potentially Aggravated Medical Conditions:** Individuals with allergy history or pre-existing dermatitis should use extra precautions in handling this product.

For toxicology data, refer to Section 11.

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>WEIGHT %</u>	<u>CAS NUMBER</u>
Deltamethrin*	0.32	52918-63-5

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

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## SECTION 4 - FIRST AID MEASURES

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### 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:

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. 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 is a synthetic pyrethroid pesticide. If ingested and vomiting has not occurred, emesis should be induced with supervision. Keep patient's 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. If localized paresthesia develops, the site should be thoroughly washed with soap and water. Cold cream can be applied to help diminish the effect.

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## SECTION 5 - FIRE FIGHTING MEASURES

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**FLASH POINT:** > 230° F (> 110° C)

**FLASH POINT METHOD:** TCC

**EXTINGUISHING MEDIA:** Foam, carbon dioxide, or dry chemical.

**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 and carbon monoxide.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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### 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. Ensure that the disposal is in compliance with all Federal, State, and local regulations.

### FOR SPILLS OR LEAKS:

**CONTAINMENT:** If container 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. Where possible, container should be oriented to prevent further leakage. Containers should be placed in a spillage drum for further movement or transport.

**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.

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## SECTION 7 – HANDLING AND STORAGE

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**HANDLING PRECAUTIONS:** Harmful if inhaled. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing. Skin contact may result in a transient tingling sensation and reddening of the skin. Avoid contamination of feed and foodstuffs. Do not use this product in or on electrical equipment due to possibility of shock hazard.

**STORAGE:** Store in a cool, dry area away from children and pets. Store in well ventilated area. Keep container tightly closed. Keep only in original container. Do not store or transport below 32°F (0° C) or above 104°F (40° C). If freezing occurs, allow product to thaw and shake well before use. Keep container dry.

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## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

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### EXPOSURE GUIDELINES:

<u>CHEMICAL NAME</u>		<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Deltamethrin		None	None
Hydrated Amorphous Silica	TWA	6 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup> (total amorphous dust); 3 mg/m <sup>3</sup> (respirable nuisance dust)

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

**EYES:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

**SKIN PROTECTION:** Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing

including long pants, long-sleeved shirt and shoes plus socks and chemical-resistant gloves. Remove contaminated clothing.

**ENGINEERING CONTROLS:** Control airborne concentrations below appropriate exposure guidelines. Use local exhaust ventilation.

**OTHER/GENERAL PROTECTION:** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before reuse. Eye wash facility and safety shower should be available.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** Liquid

**COLOR:** White **ODOR:**

Odorless **SPECIFIC**

**GRAVITY:** 1.02 **pH:** 5.09

**VISCOSITY:** 262 cps @ 20° C

**SOLUBILITY:** Miscible/dispersible in water

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## SECTION 10 – STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable.

**INCOMPATABILITY:** Strong acids and oxidizing agents

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

**EXPLODABILITY:** Not expected to be explosive.

**HAZARDOUS POLYMERIZATION :** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May form toxic materials such as: Carbon dioxide, carbon monoxide, oxides of nitrogen, bromides, various hydrocarbons, etc.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**


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**Eye Irritation (rabbit):** Non-irritating EPA Tox Category IV  
**Skin Irritation (rabbit):** Non-irritating EPA Tox Category IV  
**Dermal Toxicity LD50 (rabbit):** > 5,000 mg/kg EPA Tox Category IV  
**Oral Toxicity LD50 (rat):** > 5,000 mg/kg EPA Tox Category IV  
**Inhalation Toxicity LC50(rat):** > 5.30 mg/kg EPA Tox Category IV  
**Skin Sensitization(guinea pig):** Non-sensitizer

**TOXICITY OF ACTIVE INGREDIENT: DELTAMETHRIN**

**CHRONIC/CARCINOGENICITY:** General neurological symptoms were exhibited in studies with rats, mice and dogs. These symptoms included unsteadiness, abnormal gait, tremors and liquid feces. No histopathologic findings were observed except some signs of slight hepatotoxicity in mice. No Observable Effect Levels (NOEL's) were 1 mg/kg/day in the 2 year rat and dog studies. The NOEL for the 2 year mouse study was approximately 12 mg/kg/day. Deltamethrin was not carcinogenic in rats or mice.

**NEUROTOXICITY:** Deltamethrin does not inhibit acetylcholinesterase. Neurobehavioral effects including unsteadiness, excessive salivation, vomiting, liquid feces, uncoordinated movement, tremors, spasmodic convulsions which are typically related to Central Nervous System (CNS) stimulation, were observed in some studies. The NOEL for these studies was 1 mg/kg/day or higher.

**CARCINOGENICITY:** NTP: Not listed; IARC: Deltamethrin (5291-63-5) Group 3; OSHA: Not listed; ACGIG: Not listed

**REPRODUCTION:** Reproduction studies with rats produced clinical signs, reduced body weight gain and mortality in parent and offspring at very high dosages. The NOEL for the parents and offspring was 80 ppm or approximately 4 to 12 mg/kg/day for adults and 18 to 44 mg/kg/day for offspring.

**DEVELOPMENTAL TOXICITY:** No developmental effects were observed in studies with rats or rabbits in the absence of maternal toxicity. The developmental NOEL for rabbits was 25 mg/kg/day.

**MUTAGENICITY:** No evidence of genotoxicity was observed in a battery of in vitro and in vivo studies.

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**SECTION 12 – ECOLOGICAL INFORMATION**


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**ECOTOXICOLOGICAL INFORMATION:**
**ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:**

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water.

**OTHER ENVIRONMENTAL INFORMATION:**

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 Pollution 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 when disposing of equipment wash waters.

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**SECTION 13 – DISPOSAL CONSIDERATIONS**


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

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. If empty: Place in trash or offer for recycling if available.

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**SECTION 14 - TRANSPORT INFORMATION**


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**U.S. DOT (ROAD OR RAIL):** NOT REGULATED

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

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**SECTION 15 - REGULATORY INFORMATION**

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**REGULATIONS UNDER FIFRA:** All pesticides in the US are governed under EPA 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.

**SARA Section 313:** None of the ingredients are listed.

**SARA 311/312:** Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No

**SARA Section 302:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**California Prop. 65 Warnings:** None

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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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