1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Fire Ant Control with Acephate
EPA Reg. No.: 70506-1-7401

COMPANY IDENTIFICATION:
Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

Emergency Contact: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION:

Emergency Overview: Irritating to eyes. Harmful if swallowed.

CAUTION
Appearance: Fine, white.
Odor: Rotten. Cabbage

Potential Health Effects
Eyes: Moderately irritating to the eyes.
Skin: Prolonged or repeated contact may cause irritation, redness and rash.
Inhalation: Harmful by inhalation. Mist or dust concentrations may be harmful or irritating if inhaled. Signs and symptoms of respiratory tract irritation may include nasal discharge, sore throat, pulmonary edema and difficulty breathing.
Ingestion: Harmful if swallowed. Signs and symptoms which may occur within 12 hours following overexposure include headache, dizziness, weakness, pinpoint pupils, blurred vision, excessive salivation and nasal discharge, abdominal cramps, nausea and vomiting.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>Ingredients Name</th>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acephate</td>
<td>30560-19-1</td>
<td>75</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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 5 minutes, then continue rinsing eye. Call a poison control 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.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by a poison control center or doctor.

Notes to Physician: Cholinesterase inhibitor. Atropine is antidotal. PAM may also be used in conjunction with atropine but should not be used alone.
5. FIRE FIGHTING MEASURES:

Flammable Explosive Properties

- **Flash Point:** Not Available
- **Autoignition Temperature:** Not Available
- **Flammability Limits in Air:** Not Available
- **Extinguishing Media:** Foam Carbon Dioxide (CO₂) Water spray
- **Fire/Explosion Hazard:** Contain run-off from fire
- **Hazardous Combustion Products:** Carbon dioxide (CO₂), Sulfur oxides, Oxides of nitrogen, Oxides of phosphorous.

6. ACCIDENTAL RELEASE MEASURES:

**Personal Precautions:** Avoid contact with skin and the eyes. Ensure adequate ventilation. Take precautionary measures against static discharges.

**Environmental Precautions:** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

**Methods for Clean-up:** Sweep up and shovel into suitable containers for disposal. Reduce dust spreading with water spray, collect rinsate.

7. HANDLING AND STORAGE:

**Handling:** Keep out of reach of children. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Empty containers may contain hazardous residues.

**Storage:** Keep away from direct sunlight. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Exposure Guidelines**

**Engineering Controls:** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal Protective Equipment (PPE)**

**Eye/Face Protection:** Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available.

**Skin Protection:** Chemical resistant gloves. Chemical resistant protective clothing.

**Respiratory Protection:** Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full face piece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134
Hi-Yield® Fire Ant Control with Acephate

Effective Date: September 1, 2009

General Hygiene Considerations
Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fine, White</td>
</tr>
<tr>
<td>Odor</td>
<td>Rotten Cabbage</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powder Highly hydroscopic</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. (1% solution) 4</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not Available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>90°C / 195°F</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1.7 X 10-6 mmHG @ 24C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>183.2</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Percent Solids</td>
<td>Not Available</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>25-30 lbs/ft³</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY:

Stability: Stable under recommended storage conditions.
Conditions to Avoid: Extreme temperatures. Excess moisture.
Incompatible Materials: Alkaline.
Possibility of Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity
Product Information
Eye irritation: Minimal effects clearing within 24 hours
Skin irritation: Non-irritating (rabbit)
Dermal toxicity: LD₅₀ 5050 mg/kg (rat)
Oral toxicity: LD₅₀ 3129 mg/kg (rat)
Inhalation tox: 4 hour LC₅₀ >2.3 mg/L (rat)
Sensitization: Negative (guinea pig)

Chronic Toxicity
Acephate – High does of Acephate technical have produced cancer in mice but there is no evidence that Acephate technical causes cancer in humans. EPA has classified Acephate as a Group C possible human carcinogen based on the cancer produced in female mice. This product is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research of Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

12. ECOLOGICAL INFORMATION:

Ecotoxicity
Acephate – This pesticide is toxic to birds. Do not apply directly to water or to areas where surface water is present. Cover or soil incorporate spills. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. DO NOT apply this product or allow drift to blooming crops or weeds if bees are visiting the treatment area. Oral LD₅₀ for bees is 1.2 µg/bee.
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Fish and avian toxicity:
- 96 hour LC₅₀ Rainbow trout - >1,000 μg/L
- 96 hour LC₅₀ Bluegill - >2,000 μg/L
- Oral LD₅₀ Mallard Duck – 350 mg/kg
- Oral LD₅₀ Pheasant – 140 mg/kg

In addition, Acephate technical in the diet causes adverse effects on reproduction in Mallard Ducks (NOEL > 5 ppm but < 20 ppm) and in Bobwhite Quail (NOEL > 20 ppm and < 80 ppm).
- Bluegill – 2050 ppm
- Black Bass – 1725 ppm
- Catfish – 2230 ppm
- Crayfish – 750 ppm
- Mosquito Fish – 6000 ppm

13. DISPOSAL CONSIDERATIONS:

Waste Disposal Method: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Dispose of in accordance with all applicable federal, state, and local laws and regulations.

Contaminate Packaging: Empty containers may contain hazardous residues. Containers should be handled as instructed by following all container disposal directions.

14. TRANSPORTATION INFORMATION:

DOT: Not Regulated
ICAO: Not Regulated
IATA: Not Regulated
IMDG/IMO: Not Regulated

15. REGULATORY INFORMATION:

International Inventories

Acephate
- EINECS/ELINCS: Listed
- CHINA: Listed
- KECL: Listed

USA

Federal Regulations
- SARA 313

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SARA 311/312 Hazardous Categorization

<table>
<thead>
<tr>
<th>Hazard Category</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
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</table>

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain HAPs.

CERCLA
RCRA
Pesticide Information

State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

State Right-To-Know

International Regulations
Mexico – Grade: Not Available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Not Determined

16. OTHER INFORMATION:

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