

MATERIAL SAFETY DATA SHEET



For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call: 1-877-325-1840

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: September 1, 2009

Hi-Yield® Fire Ant Control with Acephate

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.

Physical State: Powder. Highly hygroscopic.

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:

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA/PEL
Acephate	30560-19-1	75	N/A

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.

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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 (CO ₂) Water spray
Fire/Explosion Hazard	Contain run-off from fire
Hazardous Combustion Products	Carbon dioxide (CO ₂), Sulfur oxides, Oxides of nitrogen, Oxides of phosphorous.

NFPA

Health 1

Flammability 0

Instability 0

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

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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:

Appearance	Fine, White	Odor	Rotten Cabbage
Physical State	Powder Highly hydroscopic	pH	Approx. (1% solution) 4
Boiling Point/Range	Not Available	Melting Point/Range	90°C / 195°F
Specific Gravity	Not Available	Solubility	Soluble
Evaporation Rate	Not Available	Vapor Pressure	1.7 X 10 ⁻⁶ mmHG @ 24C
Vapor Density	Not Available	VOC Content	Not Available
Viscosity	Not Available	Molecular Weight	183.2
Bulk Density	25-30 lbs/ft ³	Percent Solids	Not Available
Percent Volatiles	Not Available		

10. STABILITY AND REACTIVITY:

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Extreme temperatures. Excess moisture.

Incompatible Materials: Alkaline.

Hazardous Decomposition Products: Oxides of sulfur. Oxides of nitrogen. Oxides of phosphorous.

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 doses 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

Chemical Name	CAS-No	Weight %
Acephate	30560-19-1	75

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SARA 311/312 Hazardous Categorization

Chronic Health Hazard	Yes
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain and 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:

Voluntary Purchasing Groups, Inc. (VPG) believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of VPG. VPG expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.