



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE	

Issued Date 12-Apr-2007

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Revision Number: 5

1. PRODUCT AND COMPANY IDENTIFICATION

UPI
 630 Freedom Business Center
 Suite 402
 King of Prussia, PA 19406

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

Company Information
 UPI

Contact Information
 Customer Service
 R&D Technical Service

Phone Number
 1-800-438-6071
 610-878-6100

Available Hrs
 8:00 am to 5:00 pm EST
 8:00 am - 5:00 pm (EST)

Product Name Acephate 97UP Insecticide
EPA Reg # 70506-8
Recommended Use insecticide
Product Code 12U-102

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes
Harmful if swallowed

CAUTION

Appearance Fine,, White.

Physical State Powder. Highly hydroscopic.

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	97	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 center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call 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 Centre 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.

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

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 protective clothing. Chemical resistant gloves. Long sleeved clothing. Long pants. Socks and footwear.

Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece 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. .
Mixers & loaders:

A NIOSH approved dust mist filtering respirator with MSA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter. .

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 hygroscopic	pH	approx. (1% solution) ⁴
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	Not available	Solubility	Soluble
Evaporation Rate	Not available	Vapor Pressure	1.7 X 10 ⁻⁶ mmHG @24 C (acephate)
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	0.55 g/cc	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 polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Acephate 97UP

Eye irritation - minimal with clearing within 24 hrs
Skin irritation - non-irritating
Dermal toxicity - LD50 (rabbit) >2 g/kg
Oral toxicity - LD50 (male rat) 688mg/kg.
LD50 (female rat) 1127 mg/kg
LD50 (combined sexes) 846 mg/kg
Inhalation tox - LC50 4hr (rats) >2.13 mg/L

Chronic Toxicity

Carcinogenicity

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, 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 ug/bee.

Fish and avian toxicity:

96 hr LC50 Rainbow trout - >1,000 ug/L
96 hr LC50 Bluegill - >2,000 ug/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 >5ppm but <20ppm) and in Bobwhite quail (NOEL >20ppm and <80ppm). Acephate SP -

Bluegill - 2050 ppm
Black Bass - 1725 ppm
Catfish - 2230 ppm
Crayfish - 750 ppm
Mosquito fish - 6000 ppm

13. DISPOSAL CONSIDERATIONS

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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. .

Contaminated Packaging Non refillable container. Do not reuse this container. . Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. .

14. TRANSPORT 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
SARA 313

Chemical Name	CAS-No	Weight %
Acephate	30560-19-1	97

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

12U-102 - Acephate 97UP Insecticide

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

This product does not contain any 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

Revision Date

21-Dec-2010

Revision Summary

Update section 8 Update section 13

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End of MSDS