



# Material Safety Data Sheet

**United Phosphorus, Inc.**

NFPA	PPE	

**Issued Date** 12-Apr-2007

**Revision Date** 21-Dec-2010

**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)

**UPI**      Company Information

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**

**EPA Reg #**

**Recommended Use**

**Product Code**

Acephate 97UP Insecticide  
70506-8  
insecticide  
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.

## 5. FIRE-FIGHTING MEASURES

### Flammable Explosive Properties

Flash Point	Not available
Autoignition Temperature	Not available

Flammability Limits in Air	Not available
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Extinguishing Media	Foam Carbon dioxide (CO2) Water spray
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Fire/Explosion Hazard	Contain run-off from fire.
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Hazardous Combustion Products	Carbon dioxide (CO2), Sulfur oxides, Oxides of nitrogen, Oxides of phosphorous.
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<u>NFPA</u>	Health 1	Flammability 0	Instability 0
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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Ensure adequate ventilation. Take precautionary measures against static discharges.
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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.
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Methods for Clean-up	Sweep up and shovel into suitable containers for disposal. Reduce dust spreading with water spray, collect rinsate..
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## 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.
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Storage	Keep away from direct sunlight. Keep containers tightly closed in a cool, well-ventilated place.
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## 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

<b>Appearance</b>	Fine, White	<b>Odor</b>	Rotten Cabbage
<b>Physical State</b>	Powder Highly hygroscopic	<b>pH</b>	approx. (1% solution) <sup>4</sup>
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	Not available	<b>Solubility</b>	Soluble
<b>Evaporation Rate</b>	Not available	<b>Vapor Pressure</b>	1.7 X 10 <sup>-6</sup> mmHG @24 C (acephate)
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	No data available
<b>Bulk Density</b>	0.55 g/cc	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Extreme temperatures. Excess moisture.
<b>Incompatible Materials</b>	Alkaline.
<b>Hazardous Decomposition Products</b>	Oxides of sulfur. Oxides of nitrogen. Oxides of phosphorous.
<b>Possibility of Hazardous Polymerization</b>	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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<b>Waste Disposal Method</b>	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. .
<b>Contaminated Packaging</b>	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**

<b>DOT</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated

**15. REGULATORY INFORMATION****International Inventories**

Acephate	
<b>EINECS/ELINCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

**USA****Federal Regulations**

**SARA 313**  
SARA 313

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

**SARA 311/312 Hazardous Categorization**

<b>Chronic Health Hazard</b>	Yes
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

## 12U-102 - Acephate 97UP Insecticide

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### 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**