



# Material Safety Data Sheet

## United Phosphorus, Inc.

<b>NFPA</b>	<b>PPE</b>	

Issued Date 12-Apr-2007

Revision Date 06-May-2013

Revision Number: 7

### 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)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service R&D Technical Service	1-800-438-6071 610-878-6100	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

<b>Emergency Overview</b> Irritating to eyes Harmful if swallowed		
<b>CAUTION</b> <b>Appearance</b> Fine,, White.	<b>Physical State</b> Powder. Highly hydroscopic.	<b>Odor</b> Rotten. Cabbage.

### Potential Health Effects

<b>Eyes</b>	Moderately irritating to the eyes.
<b>Skin</b>	Prolonged or repeated contact may cause irritation, redness and rash.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	If breathing is irregular or stopped, administer artificial respiration. May cause allergic respiratory reaction. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. May produce an allergic reaction. 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.
<b>Notes to Physician</b>	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

<b>Flash Point</b>	Not available		
<b>Autoignition Temperature</b>	Not available		
<b>Flammability Limits in Air</b>	Not available		
<b>Extnguishing Media</b>	Foam Carbon dioxide (CO2) Water spray		
<b>Fire/Explosion Hazard</b>	Contain run-off from fire.		
<b>Hazardous Combustion Products</b>	Carbon dioxide (CO2), Sulfur oxides, Oxides of nitrogen, Oxides of phosphorous.		
<b>NFPA</b>	<b>Health 1</b>	<b>Flammability 0</b>	<b>Instability 0</b>

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Ensure adequate ventilation. Take precautionary measures against static discharges.
<b>Environmental Precautions</b>	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.
<b>Methods for Clean-up</b>	Sweep up and shovel into suitable containers for disposal. Reduce dust spreading with water spray, collect rinsate.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	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

**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) 4
<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

**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 thatt 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 Rearch 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 Mallar 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**

**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 when shipped by highway in non-buk containers as per 49 CFR 171.4 When shipped in bulk, by vessel, or internationally use the following shipping description:  
**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (Acephate)  
**Hazard Class** 9  
**UN-No** UN3077  
**Packing Group** PG III  
**Marine pollutant** Y.

**ICAO**  
**UN-No** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s (Acephate)  
**Hazard Class** 9  
**Packing Group** PG III

**IATA**  
**UN-No** UN3077  
**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (Acephate)  
**Hazard Class** 9  
**Packing Group** PG III  
**ERG Code** 9L

**IMDG/IMO**  
**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (Acephate)  
**Hazard Class** 9  
**UN-No** UN3077  
**Packing Group** PG III  
**EmS No.** F-A, S-F

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Acephate				X		X	KE-11118	X

**USA**

**Federal Regulations**

**12U-102**  
**Acephate 97UP Insecticide**

---

**SARA 313**  
 SARA 313

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Acephate	30560-19-1	97	1.0

**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 any HAPs.

**CERCLA**

**RCRA**

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Acephate 30560-19-1 ( 97 )			X	

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acephate		X			

**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** 06-May-2013

**Revision Summary**  
Update section 14

UPI, Inc. 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 UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of MSDS**