



Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 15-Apr-2015

Revision date 15-Apr-2015

Revision Number: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: Acephate 97UP Insecticide

Other means of identification

Item#: 12U-102
UN-No UN3077
Synonyms Not Available
Registration number(s) 70506-8

Recommended use of the chemical and restrictions on use

Recommended use Insecticide.
Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

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

Emergency telephone number

Company Phone Number 1-800-438-6071
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

hazard statements

HARMFUL IF SWALLOWED
Harmful in contact with skin
HARMFUL IF INHALED
May cause long lasting harmful effects to aquatic life



appearance Fine, white

Physical state powder Highly
hygroscopic

Odor rotten Cabbage

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- Toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Acephate	30560-19-1	97	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.
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	Wash off immediately with soap and plenty of water for at least 15 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, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Clean mouth with water.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

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

Suitable extinguishing media

Carbon dioxide (CO₂). Water spray. Dry chemical. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon dioxide (CO₂). Sulfur oxides. Oxides of nitrogen. Oxides of phosphorus.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Provide adequate ventilation. Take precautionary measures against static discharges. Use personal protective equipment.

Environmental Precautions

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. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal. Reduce dust spreading with water spray, collect rinsate. Shovel or sweep up.

7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation in confined areas. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.
incompatible materials	Alkaline.

8. Exposure Controls/Personal Protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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. Safety glasses with side-shields.
Skin protection	Long sleeved clothing. Chemical resistant apron. Impervious butyl rubber gloves. Break through time. .?.
Respiratory protection	Wear a positive-pressure supplied-air respirator.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	powder Highly hydroscopic	Odor	rotten Cabbage
appearance	Fine, white		
color	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
pH	4	
Melting point/freezing point	5 °C / 41 °F	
Boiling Point/Range	No information available	
Flash Point		
Evaporation Rate	No information available	
flammability (solid, gas)	No information available	
Flammability limit in air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
vapor pressure	1.7 X 10 ⁻⁶ mmHG @24 C (acephate)	
Vapor Density	No information available	
Specific gravity	No information available	
Water solubility	No information available	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

OTHER INFORMATION

Softening point	No information available
molecular weight	No information available
VOC Content	No information available

density No information available
Bulk density 0.55 g/cc

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Not known. Excess moisture.

incompatible materials

Alkaline.

Hazardous decomposition products

Oxides of sulfur. Oxides of nitrogen. Oxides of phosphorous.

11. Toxicological Information

Information on Likely Routes of Exposure

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
Inhalation	May be harmful if inhaled.
Eye contact	Mild eye irritant.
Skin contact	Not a skin irritant or sensitizer.
Ingestion	There is no data available for this product.

Information on Toxicological Effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	The information below indicates whether any agency has listed any ingredient as a carcinogen.
Reproductive effects	Not Available.
STOT - Single Exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral	688 mg/kg (rat)
LD50 Dermal	2000 mg/kg (rat)
LC50 Inhalation:	> 2.13 mg/l (rat)

12. Ecological Information

Marine Pollutant.

ecotoxicity

Acephate = Highly toxic to bees (1.2 ug/bee)
 Toxic to birds.
 Rainbow trout LC50 (96 hr) = >1000 ug/L
 Bluegill LC50 (96 hr) = >2000 mg/L
 Mallard duck Oral LD50 = 350 mg/kg

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other Adverse Effects

Acephate tech in diet causes adverse effects on reproduction in Mallard ducks (NOEL >5 ppm <20 ppm) and in Bobwhite quail (NOEL >20 ppm <80 ppm) .

13. Disposal Considerations

Waste Treatment Methods

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. Refer to product label.

14. Transport Information

DOT

UN-No Proper shipping name Hazard class Packing group Marine Pollutant	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. UN3077 Environmentally hazardous substances, solid, n.o.s (Acephate) 9 PG III Marine Pollutant.
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ICAO

UN-No Proper shipping name Hazard class Packing group	UN3077 Environmentally hazardous substance, solid, n.o.s (Acephate) 9 PG III
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IATA

UN-No	UN3077
Proper shipping name	Environmentally hazardous substances, solid, n.o.s (Acephate)
Hazard class	9
Packing group	PG III

IMDG/IMO

UN-No	UN3077
Proper shipping name	Environmentally hazardous substances, solid, n.o.s (Acephate)
Hazard class	9
Packing group	PG III
EmS No.	F-A, S-F

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word CAUTION

Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

International Inventories

USINV	Not determined
DSL/NDSL	Not determined
EINECS/ ELINCS	Complies
ENCS	Does not comply
China	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TSCA	Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Acephate - 30560-19-1	1.0

SARA 311/312 Hazardous**Categorization**

Acute health hazard	yes
Chronic health hazard	No

Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA

SARA Product RQ 0

RCRAPesticide 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 RegulationsState Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acephate		X		X	

International regulationsU.S. EPA Label information

EPA Pesticide registration number 70506-8

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

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Revision Summary

Update to GHS format

End of MSDS