

Agrisel USA, Inc.
P.O. Box 3528
Suwanee, GA 30024

MATERIAL SAFETY DATA SHEET

General Information No.
In Case of Emergency, Call

1-877-AGRISEL (247-4735)
1-877-854-2494

I. PRODUCT IDENTIFICATION

Product Name: Acephate Pro 75 SP Insecticide
Active Ingredient: Acephate (75%)
Chemical Name: O, S-Dimethyl Acetylphosphoramidothioate
Chemical Family: Organophosphate

II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Compound	Percent	CAS No.	OSHA PEL	ACIGH TLV
Acephate	75.0%	30560-19-1	Not listed	Not listed

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
KEEP OUT OF REACH OF CHILDREN

CAUTION: Cholinesterase inhibitor, harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

POTENTIAL HEALTH HAZARDS

- Eye:** Contact may cause eye irritation. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.
- Skin:** Prolonged or repeated skin contact may cause irritation. The systemic toxicity has not been determined.
- 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, coughing, bronchitis, pulmonary edema and difficulty in breathing.
- Ingestion:** This material may be harmful if swallowed. Degree of injury will depend on amount ingested. 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.

IV. FIRST AID MEASURES

- If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- If in Eyes:** Hold eyelid open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
- If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.
- If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.
- NOTE TO PHYSICIAN:** Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.

V. FIRE FIGHTING MEASURES

- Flashpoint (method used):** Not Applicable
- Flammable Limits:** Not Applicable
- Extinguishing Media:** Use foam, carbon dioxide, or water spray when fighting fires involving this material.
- Fire and Explosion Hazard:** Material will not burn or explode under normal conditions. Dusts at sufficient concentrations could form explosive mixtures with air.
- Firefighting Instructions:** Evacuate area and fight fire from a safe distance. Minimize the amount of water used for fire fighting. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Decontaminate personal protective equipment and fire fighting equipment before reuse.
- Firefighting Equipment:** Wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear (Bunker).
- Hazardous Combustion Products:** Carbon dioxide, water vapor, oxides of sulfur, nitrogen, and phosphorous.

VI. ACCIDENTAL RELEASE MEASURES

- Spill or Leak Procedure:** Clean up spills immediately, observing precautions as described in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in a properly labeled disposal container. Large spills may be neutralized with dilute solutions of soda ash or lime. After removal, flush contaminated area thoroughly with water. Do not allow any material to run off into

soil, drainage systems, or bodies of water. Notify and consult with proper regulatory authorities.

VII. HANDLING AND STORAGE

HANDLING: Use only in a well-ventilated area. Follow all MSDS/ label precautions even after container is emptied because they may retain product residues.

STORAGE: Store in a cool, dry place in original container and protect from sunlight. Keep away from food and drinking water. Do not put pesticide into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment:

- Eye Protection:** Safety glasses
- Clothing:** Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant headgear for overhead exposure.
- Gloves:** Waterproof gloves.
- Respirator:** Dust/mist filtering respirator (MSHA/NIOSH approval number TC-21C) when using in an area with inadequate ventilation. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical description:	Fine, white powder
Odor:	Rotten cabbage like
Molecular Weight:	183.2
Molecular Formula:	C ₄ H ₁₀ NO ₃ PS
Boiling Point:	N/A
Density:	25-30 lbs./ft.
Vapor pressure:	N/A
Melting Point:	195°F (90°C)
pH:	4.2 (when diluted with water)
Water solubility:	750 g/L @ 20°C

X. STABILITY AND REACTIVITY

Chemical stability: Stable
Conditions to avoid: High temperatures and excess moisture.
Incompatibility with other materials: Alkaline materials.
Hazardous decomposition: Noxious gases when exposed to alkaline materials. Thermal decomposition may produce oxides of sulfur, nitrogen, and phosphorous.
Hazardous polymerization: Product will not undergo polymerization.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Oral LD50 (rat, female): 1,030 mg/Kg
Dermal LD50 (rat): > 10,000 mg/Kg
Inhalation LC50 (rat): > 60 mg/L
Eye Irritation (rabbit): Minimal irritation clearing within 24 hours.
Skin Irritation (rabbit): Minimal irritation.
Sensitization (guinea pig): Non-sensitizer.

Medical Conditions Aggravated by Exposure:
Pre-existing cholinesterase depression.

Carcinogen Status:
OSHA Not listed.
NTP Not listed.
IARC Not listed.

Mutagenic Data: Weak evidence of mutagenicity in tests performed in vitro and mice.
Additional Data: Repeated or prolonged low level exposures to organophosphates may cause sensitization to subsequent exposures that mimic acute exposures.

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS

This product is toxic to birds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Fish Toxicity: Technical
Rainbow Trout (96 hour LC₅₀) >1,000 µg/L
Bluegill (96 hour LC₅₀) >2,000 µg/L

Avian Toxicity: Technical
Mallard Duck Oral LD₅₀ 350 mg/Kg

Bee Toxicity: Highly toxic.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Do not reuse container. 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.

XIV. TRANSPORT INFORMATION

DOT Shipping Description: Agricultural Insecticide, Solid, NOIBN
DOT Hazard Class: Not regulated.
UN Number: N/A
DOT Packing Group: N/A
DOT Primary/Subsidiary Label: N/A
DOT Primary/Subsidiary Placard: N/A
DOT Emergency Response Guide #: N/A

XV. REGULATORY INFORMATION

FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

OSHA Hazard Communication Standard Status: Regulated

CERCLA Reportable Quantity: N/A
SARA Title III Status: N/A
302 Extremely Hazardous Substance: No
311/312 Hazard Categories: Immediate
313 Toxic Chemicals: Acephate

California Prop 65 Status: Not listed

XVI. OTHER INFORMATION

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