

MATERIAL SAFETY DATA SHEET

ACEPHATE 97% PRILLS

Date Approved: 12/15/2009

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ACEPHATE 97% PRILLS**ACTIVE INGREDIENT:** Acephate**CHEMICAL FAMILY:** Organophosphorus**MOLECULAR FORMULA:** C₄H₁₀NO₃PS**SYNONYMS:** O, S-dimethyl acetylphosphoramidothioate**MANUFACTURER**J. Oliver Products, LLC
3187 Robertson Gin Road
Hernando, MS 38632**Emergency Telephone Numbers:****Emergency Phone** 662-429-7621
CHEMTREC (800) 424-9300EPA # 83222-31

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt.%</u>	<u>PEL/TLV</u>
Acephate	30560-19-1	97%	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE

- White granular solid with a rotten cabbage odor

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IMMEDIATE CONCERNS

- Harmful if swallowed
- Causes eye irritation
- Avoid contact with eyes, skin or clothing
- Avoid breathing dust or spray mist
- Keep out of reach of children

POTENTIAL HEALTH EFFECTS

- This substance is slightly irritating to eyes.
- Skin: This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.
- Ingestion: This substance is slightly toxic to internal organs if swallowed. See Toxicological Information Section 11.
- Inhalation: If inhaled, this substance is considered practically non-toxic to internal organs. This substance may be irritating if inhaled.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Eyes: May include discomfort, tearing, swelling, redness, and blurred vision.

Inhalation: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema, and difficulty breathing.

ACUTE EFFECTS

REPRODUCTION AND BIRTH DEFECTS

Acephate causes pre- and postnatal growth retardation, and decreased the liveborn litter size when administered to pregnant and/or lactating rats at maternally toxic doses (no effects at 2.5 mg/kg/day). No adverse effects occurred to the offspring or pregnant rabbits dosed at up to 10 mg/kg/day.

SUBCHRONIC/CHRONIC TOXICITY

CHRONIC

Acephate increased the incidence of liver tumors in high dose group female mice. Acephate was not carcinogenic in male mice or rats when tested in two-year feeding studies.

TARGET ORGANS

Acephate is an inhibitor of the cholinesterase enzyme found in nervous tissue, red blood cells, and plasma.

COMMENTS HEALTH

Depending upon the extent and degree of overexposure to the product, signs and symptoms of cholinesterase inhibition can result following either ingestion, skin contact or inhalation routes of exposure. Signs and symptoms of cholinesterase inhibition can result from either acute (one-time), subchronic (repeated short-term) and chronic (daily life-time) overexposure to the product.

Signs and symptoms of cholinesterase inhibition usually occur within 12 hours following overexposure. These effects may include, but may not be limited to, headache, dizziness, weakness, nausea, vomiting, diarrhea, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating and abdominal cramps. Incontinence, unconsciousness, convulsions and breathing difficulties are indicative of severe poisoning. In untreated severe poisoning, death is due to respiratory failure or cardiac arrest.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 15 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have 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. Never give anything by mouth to an unconscious person.

INHALATION: 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.

NOTES TO PHYSICIAN: This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs and/or symptoms of cholinesterase inhibition appear, atropine sulfate is antidotal, 2-PAM (Protopam) is also antidotal and may be used in conjunction with atropine but should not be used alone.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical and water fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorus. Incomplete combustion can produce carbon monoxide.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up material and place in disposable container. Dispose of in accordance with instructions in Section 13. "Disposal".

LARGE SPILL: Clean up spills immediately, observing precautions in Exposure Controls/Personal protection section. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cal litter, clay, rags or other absorbent and place in a disposable container. Dispose of in accordance with instructions in Section 13. "Disposal".

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills (see Section 8. "Exposure Controls/Personnel").

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Avoid contamination of feed and foodstuffs. Store in a secure cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For application of product in accordance with label instructions, no special eye protection is needed.

Handling of this product is not likely to present an eye exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield.

SKIN: Wear protective clothing when handling or applying this product including long pants, long sleeved shirt, socks, shoes and chemical resistant gloves. Wash nondisposable gloves thoroughly with soap and water before removing. Remove contaminated clothing and launder separately before reuse. Promptly and thoroughly wash hands and exposed skin with soap and water after using this product.

RESPIRATORY: No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Putrid, similar to rotten caabbage

APPEARANCE: White granular solid

BULK DENSITY: 38.3 lb/cu ft.

MOLECULAR WEIGHT: 183.2 (Acephate)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid contact with alkaline materials.

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION: Contact with alkaline materials including hypochlorine oxidants may produce noxious gases.

INCOMPATIBLE MATERIALS: Reacts with bases or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

EYES: Corneal involvement and irritation clearing in 7 days or less.

DERMAL LD₅₀: Mild to slight irritation at 72 hours. The dermal LD50 in rabbits is greater than 10 g/kg.

ORAL LD₅₀: The oral LD50 in rats is >1400 mg/kg.

INHALATION LC₅₀: The 1 hour inhalation LC50 in rats is greater than 11 mg/l.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

ECOTOXICOLOGICAL INFORMATION: This pesticide is toxic to birds. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not allow livestock to graze on treated areas. Do not feed treated grass to livestock.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: If necessary to dispose of partially filled product container, securely wrap it in several layers of newspaper and discard in trash.

EMPTY CONTAINER: Do not reuse empty container. Discard container in trash

14. TRANSPORT INFORMATION

U.S. DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated.

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR or appropriate Dangerous Goods Regulations for

additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE: YES	CHRONIC: NO	FIRE: NO	REACTIVITY: NO	PRESSURE GENERATING: NO

CARCINOGEN: Acephate IRIS Carcinogen Assessment is: C

STATE REGULATIONS

PROPOSITION 65 STATEMENT: Not listed

16. OTHER INFORMATION

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by J. Oliver Products, LLC as to the results to be obtained based upon your use of the information, nor does J. Oliver Products, LLC assume any liability arising out of your use of the information.