

**SAFETY DATA SHEET
DIRECT AG SOURCE, LLC
ACEPHATE 97% PRILLS**

1. IDENTIFICATION

PRODUCT NAME: ACEPHATE 97% PRILLS
EPA REGISTRATION NO. 83222-31
CHEMICAL NAME OF ACTIVE INGREDIENT(S): Acephate: O,S-Dimethyl acetylphosphoramidothioate
PRODUCT TYPE: Insecticide
COMPANY NAME: Direct Ag Source, LLC
30473 260th St.
Eldora, IA 50627
Phone: 1-800-424-9300

**FOR MEDICAL AND CHEMICAL EMERGENCIES,
SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT,
CALL CHEMTREC:
FOR EMERGENCY MEDICAL TREATMENT
INFORMATION, CALL NATIONAL POISON
CONTROL CENTER:** Phone: 1-800-222-1222

**FOR PRODUCT INFORMATION, CALL NATIONAL
PETICIDE INFORMATION CENTER:** Phone: 1-800-858-7378

2. HAZARDS IDENTIFICATIONS

Hazards information listed in this section are based on OSHA 2012 Hazard Communication Standard (29 CFR 1910.1200). See Section 15 for FIFRA information.

HAZARD CLASSIFICATION:
Acute oral toxicity: Category 4

SIGNAL WORD: WARNING

PICTOGRAM:



HAZARD STATEMENTS:
- Harmful if swallowed.

PRECAUTIONARY STATEMENTS:
- Wash hand thorough after handling. Do not eat, drink or smoke when using this product. If swallowed: call a poison center or doctor if you fell unwell. Rinse mouth.

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT	CAS NUMBER	%
Acephate	30560-19-1	97
Other Ingredients		3

4. FIRST AID MEASURES

FIRST AID	
Contains an organophosphate that inhibits cholinesterase.	
IF SWALLOWED	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> 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.
IF INHALED	<ul style="list-style-type: none"> 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency medical assistance, call the Rocky Mountain Poison Control Center 1-866-673-6671.	
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.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not available

FLAMMABLE LIMITS: Unknown

EXTINGUISHING MEDIA: Use foam, carbon dioxide, dry chemical or water spray.

FIRE & EXPLOSION HAZARDS: Can burn in fire releasing irritating and toxic gasses due to thermal decomposition or combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, sulfur oxides, oxides of nitrogen, oxides of phosphorous.

FIRE-FIGHTING INSTRUCTION AND EQUIPMENT: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Cool closed containers exposed to fire with water spray. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage due to runoff. Equipment or materials involved in pesticide fires may become contaminated.

FIREFIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Clean up spills immediately observing the precautions in Section 8 of this SDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Do not walk through spilled material and avoid breathing vapors and skin contact. Do not allow material to enter streams, sewers or other waterways or to contact vegetation.

For large spills, material should be recovered. For small spills, carefully sweep up absorbed spilled material and place in covered container for disposal. Scrub contaminated area with soap and water and use dry absorbent granules to collect wash solution for disposal. Contaminated soil may have to be removed and disposed.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage and disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PRECAUTIONS TO BE TAKEN IN STORAGE: Keep pesticide in original container. Do not put concentrate or dilute product into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or food stuffs. Do not store near feed or food.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES: Wash thoroughly with soap and water after handling. 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.

SKIN PROTECTION: Wear coveralls over long-sleeved shirt and long pants, chemical-resistant footwear plus socks, chemical-resistant apron when mixing or loading or exposed to the concentrate, and chemical-resistant headgear for overhead exposure.

EYE PROTECTION: Use chemical goggles.

HAND PROTECTION: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC), or Viton

RESPIRATOR REQUIREMENTS: For exposures in enclosed areas, use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

ENGINEERING CONTROLS: Refer to product label. To avoid exceeding exposure limits, handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

USER SAFETY RECOMMENDATIONS:

Users should:

- 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 clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE LIMITS:

Chemical Name	OSHA/PEL	ACGIH/TLV	OTHER
Acephate	NE	NE	NE

NE: Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White granular solid

ODOR: Putrid, similar to rotten cabbage

FLASH POINT: Not applicable

pH: 3.53

BULK DENSITY: 38.3 lb/cu ft

BOILING POINT: Not available

VAPOR PRESSURE: Not available

SOLUBILITY: Not available

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PARTITION COEFFICIENT: Not available

VISCOSITY: Not available

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under normal use and storage.

CONDITIONS TO AVOID: Not known.

MATERIALS TO AVOID: Avoid contact with alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, sulfur oxides, oxides of nitrogen, oxides of phosphorous

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD ₅₀ (Rat):	>1,400 mg/kg
Acute Dermal LD ₅₀ (Rat):	>10 g/kg
Acute Inhalation LC ₅₀ (Rat):	11 mg/L (1-hours)
Eye Irritation (Rabbit):	Moderately irritating
Dermal Irritation (Rabbit):	No data available
Dermal Sensitization:	No data available

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing cholinesterase depression.

REPRODUCTIVE OR TERATOGENIC EFFECTS: No human data were found on the teratogenic or reproductive effects.

CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

The U.S. EPA designated acephate as Group C, possible human carcinogen based on increases in liver adenomas and carcinomas in female mice that ate acephate. No human data were found on carcinogenic effects of acephate.

MUTAGENIC DATA: Weak evidence of mutagenic effects during in vivo and in vitro assays.

ADDITIONAL DATA: Acephate can cause cholinesterase inhibition in humans; that is, it can overstimulate the nervous system causing nausea, dizziness, confusion, and at very high exposures (e.g., accidents or major spills), respiratory paralysis and death. (2001 EPA Fact Sheet)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: The pesticide 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.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

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 weeks while bees are actively visiting the treatment area.

Ecotoxicological data:

Rainbow trout LC₅₀ (96h): > 1000 mg/L

Bluegill LC₅₀ (96h) : > 2000 mg/L

Mallard duck acute oral LD₅₀: 350 mg/kg

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Northern bobwhite quail (5-day) LC50: 1280 ppm

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated.

INTERNATIONAL TRANSPORTATION:

Not regulated.

15. REGULATORY INFORMATION

FIFRA 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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION Harmful if swallowed.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Section 313: Acephate (97%) (CAS # 30560-19-1)

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

NFPA HAZARD RATINGS	NFPA		
HEALTH:	1	0	MINIMAL
FLAMMABILITY:	0	1	SLIGHT
REACTIVITY:	0	2	MODERATE
		3	HIGH
		4	SEVERE

SDS DATE: 4-9-2015. Supersedes version dated 1-30-2015 and 8-2-2008. Changes made Section 1.

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws.