

# FARMSAVER.COM LLC

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## "For Chemical Emergency"

Spill, Leak, Fire, Exposure or Accident, Call:  
Chemtrec (24 Hours): (800) 424-9300  
Outside U.S., call collect: (703) 527-3887

Chemtrec (24 Hours): (800) 424-9300

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT IDENTIFICATION

|  |  |
|--|--|
| PRODUCT NAME:<br><b>FARMSAVER.COM Acephate 90 SP</b>   | CHEMICAL NAME (FORMULA):<br><b>O,S-Dimethyl Acetylphosphoramidothioate (C<sub>4</sub>H<sub>10</sub>NO<sub>3</sub>PS)</b> |
| CHEMICAL FAMILY:<br><b>Organophosphate Insecticide</b> |  |

### SECTION 2 - HAZARDOUS INGREDIENT INFORMATION

Section 313 of Sara Title III: Ingredients subject to reporting are identified by asterisk (\*)

| CAS NO.            | COMPONENT                        | %           | ACGIH TLV                  | OSHA PEL                  | STEL       |
|--------------------|----------------------------------|-------------|----------------------------|---------------------------|------------|
| <b>30560-19-1</b>  | <b>Acephate</b>                  | <b>90</b>   | <b>N/A</b>                 | <b>N/A</b>                | <b>N/A</b> |
| <b>7631-86-9</b>   | <b>Hydrated Amorphous Silica</b> | <b>5-10</b> | <b>10 mg/m<sup>3</sup></b> | <b>6 mg/m<sup>3</sup></b> | <b>N/A</b> |
| <b>Undisclosed</b> | <b>Other</b>                     | <b>0-5</b>  | <b>None</b>                |                           |            |

### SECTION 3 - PHYSICAL PROPERTIES

|   |  |  |   |
|---|--|--|---|
| BOILING POINT:<br><b>N/A</b>                    | MELTING POINT:<br><b>90°C/194°F</b>                  | DENSITY<br><b>28-32 pounds/cu. ft.</b> | VAPOR PRESSURE ACEPHATE<br><b>1.7 X 10<sup>-6</sup> (mmHg) @ 24°C</b> |
| VAPOR DENSITY (AIR=1):<br><b>Not determined</b> | % SOLUBILITY IN WATER:<br><b>750 g/l @ 20°C/68°F</b> | % VOLATILE BY WEIGHT:<br><b>0</b>      |   |
| APPEARANCE:<br><b>Fine, white powder</b>        | ODOR:<br><b>Strong cabbage-like odor</b>             | pH<br><b>5 @ 5 wt/wt%</b>              |   |

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

|                                     |   |
|-------------------------------------|---|
| FLASH POINT & METHOD:<br><b>N/A</b> | FLAMMABLE LIMITS IN AIR (LFL - UFL)<br><b>N/A</b> |
|-------------------------------------|---|

EXTINGUISHING MEDIA:

**Non flammable. Base decision on surrounding materials in fire.**

SPECIAL FIRE FIGHTING PROCEDURES:

**Dike and collect water used to fight fire. Decontaminate Personal Protective - and fire fighting- equipment before reuse.**

UNUSUAL FIRE AND EXPLOSION HAZARDS:

**Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.**

### SECTION 5 - REACTIVITY DATA

STABILITY: **Stable**

HAZARDOUS POLYMERIZATION: **Will not occur**

HAZARDOUS DECOMPOSITION PRODUCTS:

**Noxious gases if exposed to alkaline materials. Thermal decomposition may form oxides of sulfur, nitrogen and phosphorous.**

CONDITIONS & MATERIALS TO AVOID:

**Alkaline materials, including hypochlorite oxidants which may produce noxious gases.**

### SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:

**A full-facepiece, properly fit-tested MSHA/NIOSH approved respirator fitted with dust/mist filtering cartridge (TC-21C) may be required when working with this product in an area with inadequate ventilation.**

|  |  |                              |                         |                       |
|--|--|------------------------------|-------------------------|-----------------------|
| <b>Ventilation</b>   | LOCAL EXHAUST:<br><b>Normal</b>  | MECHANICAL:<br><b>Normal</b> | SPECIAL:<br><b>None</b> | OTHER:<br><b>None</b> |
| PROTECTIVE GLOVES:<br><b>Waterproof gloves</b>   | EYE PROTECTION<br><b>Safety glasses</b>  |                              |                         |                       |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT:<br><b>Long sleeved shirt, long pants, shoes plus socks, chemical-resistant headgear. Facilities storing this material should be equipped with an eyewash facility and a safety shower.</b> | WORK/HYGIENIC PRACTICES:<br><b>Wash thoroughly after use. Remove and wash clothing contaminated with this product.</b> |                              |                         |                       |

PRODUCT NAME: FARMSAVER.COM ACEPHATE 90 SP

## SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

**Inhalation, skin, eye contact and ingestion**

CARCINOGEN:

**None. Classified as Group C  
(possible) human carcinogen.**

NTP:

**Not listed.**

IARC MONOGRAPHS:

**Not listed.**

OSHA:

**Not listed.**

INHALATION (Technical Acephate):

**Slightly toxic. May cause respiratory irritation. Inhalation LC<sub>50</sub> (rat) - > 60 mg/L**

EYE CONTACT (Technical Acephate):

**Slightly irritating. May cause minimal irritation that clears in 24 hours.**

SKIN CONTACT (Technical Acephate):

**Slightly toxic. May cause minor irritation. Dermal LD<sub>50</sub> (rat) - > 10,000 mg/kg**

INGESTION (Technical Acephate):

**Slightly toxic. May cause headache, nausea, vomiting and abdominal pains. Oral LD<sub>50</sub> (rat, female) – 1,030 mg/kg**

ALLERGIC SKIN REACTIONS (Technical Acephate):

**Not a skin sensitizer**

## SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT:

**Flush with large amounts of water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If irritation persists, see a doctor.**

SKIN CONTACT:

**Remove contaminated clothing, wash with soap and water. Wash clothing before reuse.**

INHALATION:

**Move to fresh air. If breathing is difficult, give oxygen.**

INGESTION:

**Give large amount of water (or milk) and induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency center.**

NOTES TO PHYSICIAN:

**This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM is also antidotal and may be used in conjunction with atropine but should not be used alone. See Section 12 for Special Instructions on patient care.**

## SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**Small spill: Clean up spills immediately, observing precautions as described in Section 6. Absorb spill with inert material. Vacuum or sweep up material and place in properly labeled chemical waste container. Incineration may be considered for disposal of waste at a facility that complies with local, state and federal regulations.**

**Large Spill: May be neutralized with dilute solutions of soda ash or lime. Dike to prevent contamination of local water sources. After removal, flush contaminated area thoroughly with soap and water.**

WASTE DISPOSAL METHOD:

**Dispose of in accordance with Federal, state and local regulations.**

## SECTION 10 – ECOLOGICAL INFORMATION

FISH TOXICITY (Technical)

**96 hour LC<sub>50</sub>, Rainbow Trout**

**>1,000 ug/L**

**96 hour LC<sub>50</sub>, Bluegill**

**>2,000 ug/L**

AVIAN TOXICITY (Technical)

**Oral LD<sub>50</sub>, Mallard duck**

**350 mg/Kg**

BEE TOXICITY (Technical)

**Highly toxic (1.2 ug/bee)**

PRODUCT NAME: FARMSAVER.COM ACEPHATE 90 SP

## SECTION 11 - SHIPPING DATA

DOT SHIPPING NAME: Agricultural Insecticide, Dry, NONREGULATED.

TECHNICAL SHIPPING NAME: Acephate 90% Powder

Hazardous Classification: None

Additional Labeling: None

## SECTION 12 - SPECIAL INSTRUCTIONS

### SPECIAL INSTRUCTIONS:

**This product is a cholinesterase inhibitor. Acute overexposures by oral, dermal or inhalation route may produce signs and symptoms of toxicity. Severe symptoms and signs include diarrhea, pinpoint and non-reactive pupils, respiratory difficulty, pulmonary edema, cyanosis, loss of sphincter control, convulsions and coma. Convulsions should be treated with diazepam (e.g., VALIUM, STESOLID), 5-10 mg for adults (2-5 mg for children). Contraindicated are oximes (e.g., 2-PAM, Toxogonin), morphine or other opiates, xanthine derivatives and barbiturates. Support respiration as needed. Measures should include removal of secretions, maintenance of patient airway, and, if necessary, artificial ventilation.**

**If cyanosis is absent, give Atropine 2-4 mg intravenously (IV) (0.05 mg/kg body weight for children). Repeat Atropine at 5-10 minute intervals until atropinization occurs (dry mouth, flushed skin, tachycardia, dilated pupils), and maintain for 48 hours. If cyanotic, give initial atropine intramuscularly and start measures to improve ventilation.**

**Start 2-PAM at the same time. Give 1-2 gm 2-PAM (20-40 mg/kg for children) in 100 cc saline over 15 to 30 minutes. If pulmonary edema is present, give intravenously slowly as a 5% solution in water over 5 minutes. A second dose may be given after 1 hour if muscle weakness persists. Additional doses may be given cautiously for persistent muscle weakness. May be given by intramuscular or subcutaneous routes if intravenous administration is not feasible.**

## SECTION 13 - OTHER INFORMATION/PRECAUTIONS

### SARA TITLE 3: SECTION 311/312 CATEGORIZATIONS (40CFR 370)

This product is a hazardous chemical under 29CFR 1910.1200, and is categorized as an immediate and delayed health hazard.

### SARA TITLE 3: SECTION 313 INFORMATION (40CFR 372)

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere in this MSDS.)

-Acephate (Acetylphosphoramidothioic acid O,S-dimethyl ester)  
(30560-19-1)

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE      N/E = NOT ESTABLISHED

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**Date: 1/16/01**