



MATERIAL SAFETY DATA SHEET #2025

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DATE ISSUED: 7/19/01
SUPERSEDES:

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Fate
Chemical Family: Organophosphate
Chemical Name/Synonyms: O,S-dimethyl Acetylphosphoramidothioate

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | %(by/wt.) | CAS # | PEL/TLV |
|---|-----------|------------|------------------|
| Formulated with one or more of the following ingredients. Check specific product label. | | | |
| Acephate | 75 | 30560-19-1 | None Established |

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eye, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS:

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.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing cholinesterase depression

POTENTIAL ENVIRONMENTAL HAZARDS: None Known

IV. FIRST AID MEASURES

EYES: Wash eyes with fresh water for 15 minutes. If irritation continues, see a physician.

SKIN: Removed contaminated clothing and wash skin with plenty of soap and water.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

INGESTION: Drink 1 or 2 glasses of water or milk, and induce vomiting by touching the back of the throat with a finger. If possible, contact a physician, Poison Control, or an emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center.

NOTES TO MEDICAL DOCTOR: 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

Flash Point (Method Used): Not Applicable

Lower Explosion Limits: Not Applicable

NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA: ☒ Foam

☒ Water Spray

Auto Ignition Temperature: Not Applicable

Upper Explosion Limits: Not Applicable

Fire: 0

Reactivity: 0

☐ Alcohol Foam

☐ Other

☐ Dry Chemical

☒ CO₂

EXPLOSION HAZARDS: Material will not burn or explode under normal conditions. Dusts at sufficient concentrations could form explosive mixtures with air.

FIRE FIGHTING PROCEDURES: 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. 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

RELEASE NOTES: If material is spilled, clean up spills immediately, observing precautions as described in Exposure Controls. Isolate hazard area. Keep unnecessary 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

GENERAL PROCEDURES: Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool, dry place in original container and protect from sunlight. Keep away from food and drinking water.

Other Precautions: KEEP OUT OF REACH OF CHILDREN

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses

RESPIRATORY: Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) when using in an area with inadequate ventilation.

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants; shoes plus socks; chemical-resistant headgear for overhead exposure.

GLOVES: Waterproof gloves

WORK HYGIENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protection Equipment after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

COMMENTS: 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.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not Applicable

MELTING POINT: 195F/90C

ODOR: Rotten cabbage like

APPEARANCE: Fine, white powder

pH: 4.2 (when diluted with water)

SPECIFIC GRAVITY: Not Applicable

EVAPORATION RATE: Not Applicable

VAPOR PRESSURE: Not Applicable

SOLUBILITY IN WATER: 750 g/L @20C

MOLECULAR WEIGHT: 183.2

MOLECULAR FORMULA: C₄H₁₀NO₃PS

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures and excess moisture

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Alkaline materials

HAZARDOUS DECOMPOSITION PRODUCTS: Noxious gases when exposed to alkaline materials. Thermal decomposition may produce oxides of sulfur, nitrogen and phosphorous.

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: (Rabbit) Minimal irritation clearing within 24 hours

SKIN EFFECTS: (Rabbit) Minimal irritation

DERMAL LC₅₀: (Rat) >10,000 mg/Kg

ORAL LD₅₀: (Rat, female) 1,030 mg/Kg

INHALATION LC₅₀: (Rat) >60 mg/L

SENSITIZATION: (Guinea Pig) Non-sensitizer

ACUTE EFFECTS FROM OVEREXPOSURE: May cause eye, skin and respiratory tract irritation.

CHRONIC EFFECTS FROM OVEREXPOSURE: Repeated or prolonged low level exposures to organophosphates may cause sensitization to subsequent exposures that mimic acute exposures.

CARCINOGENICITY:

IARC: Not Listed

NTP: Not Listed

OSHA: Not Listed

OTHER: Mutagenic data: Weak evidence of mutagenicity in tests performed in vitro and mice

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This pesticide is toxic to birds. Do not apply directly to water, to areas where surface water is present. Cover or soil-incorporate spills. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

ECOTOXICOLOGICAL INFORMATION:

Fish Toxicity: (Technical)

96 hour LC₅₀, Rainbow trout - >1,000 ug/L

96 hour LC₅₀, Bluegill - >2,000 ug/L

Avian Toxicity: (Technical)

Oral LD₅₀, Mallard duck – 350 mg/Kg

Bee Toxicity: Highly toxic

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: 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. Dispose of in accordance with applicable federal, state and local regulations.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Applicable

Proper Shipping Name: Agricultural Insecticide, Solid, N.O.I.B.N.

Hazard Class: Not Regulated

U.S. Surface Freight Class: Not Applicable

Reportable Quantity (RQ): Not Applicable

ID NO.: Not Applicable

Marine Pollution #1: Not Applicable

HM 181 Shipping Name: Not Regulated

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Y Immediate (Acute Health)

N Delayed (Chronic Health)

N Fire.

N Sudden Release of Pressure

N Reactivity

SEC 302: Not Applicable

SEC 304: Not Applicable

SEC 313: Acephate #30560-19-1

CERCLA RQ: Not Applicable

CAA RQ: Not Applicable

EPA Registration No.: 51036-236-10404



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