

ALIETTE® INJECTABLE

MATERIAL SAFETY DATA SHEET

Florida Silvics, Inc. (dba Tree Tech Microinjection Systems)

950 SE 215th Ave.

Morrison Florida 32668

In case of emergency, call 1-800-622-2831

or Chemtrec 1-800-424-9300

I. MATERIAL IDENTIFICATION

Product Name: **ALIETTE INJECTABLE** **EPA Registration No. 64014-7**

Contains Aliette® fungicide (12 mL) per microinjection unit

Chemical Name: Fosetyl-Al; Ethyl hydrogen phosphonate

Synonym (Pesticide): Aliette Formula: 6C H18 O9 3P Al

T.S.C.A. Status: Registered under FIFRA

EPA Signal Word: Caution - Harmful if inhaled, swallowed or absorbed through skin.

Suspect cancer hazard. Contains material which may cause cancer.

II. INGREDIENTS

Material:

Aluminum tris (O-ethyl phosphonate) 9.5% CAS No. 39148-24-8

OSHA hazard: N

Other ingredients (trade secret) 90.5%

OSHA hazard: N

III. FIRST AID PROCEDURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Eye Contact: Hold eyelids open and flush eyes with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Contact: In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

Inhalation: Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation), Seek medical attention. Medical Conditions Possibly Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

IV. HEALTH HAZARD INFORMATION

Symptoms of Exposure: This product has very low toxicity and there are no specific symptoms of overexposure in humans. Skin and eye contact are the most likely routes of exposure. Liquid and mist will irritate eyes resulting in tearing and/or reddening of the eyes. No irritation to the skin is likely after brief contact, but would be irritating after prolonged contact. Based on animal studies no adverse effects or symptoms would be expected from chronic exposure to this product.

V. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal handling and storage conditions.

Conditions to Avoid: Extreme humidity.

Materials to Avoid: Strong acids, bases, oxidizing agents and reducing agents.

Hazardous Decomposition Products: Oxides of carbon, oxides of phosphorus, and phosphine gas. Hazardous polymerization will not occur.

VI. PHYSICAL HAZARD INFORMATION

Physical Properties

Boiling Point Range:	No data available
Specific Gravity:	1.05 @ 20 C (68F)
Vapor Pressure:	No data available
Vapor Density:	No data available
Melting Point:	No data available
Appearance:	Plastic microinjection unit containing colorless liquid
Odor:	Odorless
pH:	4.0 @ 100 wt/wt%

VII. ENVIRONMENTAL PROTECTION

Waste Disposal Method: Chemical additions, processing or otherwise altering this material, may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. Observe all federal, state and local disposal laws concerning health and environment.

Container Handling and Disposal: DO NOT RE-USE MICROINJECTION UNITS.

In Case of Fire: For small fires, use dry chemical or carbon dioxide extinguishing media. For large fires, use water spray, alcohol foam, polymer foam or ordinary foam. Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Prevent human exposure to fire, smoke or fumes. Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard. Under fire conditions, toxic, corrosive fumes are emitted. Evacuate non-essential personnel from area. Fight fire from upwind position. Equipment or materials involved in pesticide fires may become contaminated. Use water spray to cool nearby containers and structures exposed to fire. If water is used as an extinguishing medium, the contaminated area must be diked to keep the contaminated water out of all water supplies. Observe all government regulations on spill reporting and handling disposal of waste.

Unusual Fire and Explosion Hazards: Toxic vapors such as oxides of phosphorus, oxides of carbon, and phosphine gas may be formed.

VIII. PERSONAL PROTECTION AND PRECAUTIONS

Skin: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration should be given both to durability as well as permeation resistance.

Eye: Wear protective eye wear

Ventilation: Use general and local exhaust ventilation when needed

Other Protective Devices and Procedures: Wear chemical resistant gloves such as polyethylene or butyl rubber or neoprene rubber or viton. Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Shower or wash thoroughly after handling or accidental exposure to this product. Do not store and/or consume foods, beverages, tobacco products or cosmetics in areas where this material is

stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

IX. CALIFORNIA ADDENDUM (PROPOSITION 65) SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986

This product does not contain any components that are regulated under the State of California Proposition 65 for carcinogens and/or reproductive hazards.

IX. SARA TITLE III HAZARD CATEGORY: For Reporting Under Section 311 & 312

Components present in this product that require reporting under the statute are: None

X. SPECIAL PRECAUTIONS AND STORAGE DATA

Handling Precautions: Avoid direct or prolonged contact with skin and eyes. Do not breathe dusts. Do not breathe vapors and mists. Do not ingest. Wash thoroughly after handling.

Storing Precautions: Store in cool, well-ventilated, dry place. Do not store with feed or food. Do not place damaged or leaking containers in inventory.

Other Precautions: It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment. **THIS PRODUCT MAY PRESENT A DUST EXPLOSION HAZARD.**

Do not contaminate any body of water. **KEEP OUT OF REACH OF CHILDREN.**

XI. SHIPPING DATA

D.O.T. Shipping Name: Not regulated

D.O.T. Hazard Classification: Not applicable

UN/NA no.: Not applicable

Reportable Quantity (RQ): None

D.O.T. Placards: None

D.O.T. labels required: None

Freight Class Bulk: Fungicide, Agricultural, Liquid

Freight Class Pkg.: Fungicide, Agricultural, Liquid

XII. TOXICOLOGICAL INFORMATION

Eye irritation: Causes moderate irritation of rabbit eye e.g., redness, tearing.

Skin irritation: Harmful if absorbed through skin. Irritant. Causes redness, swelling.

Inhalation toxicity: Harmful if inhaled. May cause upper respiratory tract irritation.

Ingestion toxicity: Harmful if ingested.

Dermal toxicity: $LD_{50} > 5 \text{ mg} / 1/4 \text{ hr}$, rat.

Oral toxicity: $LD_{50} > 5000 \text{ mg/kg}$, rat

Chronic toxicity: This product contains ingredients that are considered by OSHA, NTP, IARC or ACGIH to be probable or suspected human carcinogens. However, EPA has concluded that fosetyl-Al is unlikely to pose a carcinogenic hazard to humans.

Issued Date: 4/9/98

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This information is furnished solely for your consideration, investigation and verification. Before using any product READ THE LABEL.