

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: eFOG[®]-80 FDL **EPA Reg# 64864-67**
Product Code: 10430
Product Use: Fungicide for Postharvest Pome Fruit Treatment by Thermal Fogging
Supplier: Pace International, LLC
Address: 5661 Branch Road, Wapato, WA 98951
Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification:

Physical, Flammable liquid, Category 3
 Acute Dermal, Category 5
 Acute Inhalation, Category 5
 Skin irritation, Category 2
 Eye irritation, Category 1
 Respiratory Sensitization, Category 1
 Specific Target Organ Toxicity – single exposure, Category 3
 Specific Target Organ Toxicity – repeated exposure, Category 2
 Acute Aquatic toxicity, Category 3

Hazard Symbols:



Hazard Statements:

DANGER
 H226 Flammable liquid and vapour.
 H313 May be harmful in contact with skin.
 H333 May be harmful if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs (kidneys and liver) through prolonged or repeated exposure.
 H402 Harmful to aquatic life.

Precautionary Statements:

Prevention Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/Bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P280 Wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must have access to a NIOSH-approved full-face respirator with organic vapor filter if needed.
 P284 In case of inadequate ventilation have access or wear respiratory protection.
 P264 Wash hands thoroughly after handling.
 P261 Avoid breathing fume/gas/mist/vapours and spray.
 P271 Use only outdoors or in a well-ventilated area.
 P260 Do not breathe fumes/gas/mist/vapours or spray.
 P273 Avoid release to the environment.

Response Statements:

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370/378 In case of fire: Use dry chemical, CO₂ to extinguish, do not use water.
 P304/312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
 P302/352 IF ON SKIN: Wash with plenty of soap and water.
 P321 Specific treatment see Section 4 First Aid Measures.
 P332/313 If skin irritation occurs: Get medical advice/attention.
 P362/364 Take off contaminated clothing and wash it before reuse.
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor for treatment advice.
 P304/340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
 P342/311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor for treatment advice.
 P314 Get medical advice/attention if you feel unwell.

Storage Statements:

P403/235 Store in a well-ventilated place. Keep cool.
 P233 Keep container tightly closed.
 P405 Store locked up.

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.



3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Amyl Acetate	628-63-7	10 - 15%
Fludioxonil	131341-86-1	5 - 10%
Ethyl Acetate	141-78-6	3 - 8%
Proprietary food grade ingredients		balance

4. FIRST AID MEASURES

General	Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Advice:	
If on Skin:	Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.
If Swallowed:	Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If Inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Combustible, dry chemical, CO ₂ . Do not use water spray.
Special Exposure Hazards:	Keep away from strong oxidizers.
Special Protective Equipment / Procedures for Firefighters:	Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must have access to a NIOSH-approved full-face respirator with organic vapor filter.
Environmental Precautions:	In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
Containment / Clean-Up Methods:	Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal. Incinerate or dispose of in an approved disposal site.

7. HANDLING & STORAGE

Handling:	Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must have access to a NIOSH-approved full-face respirator with organic vapor filter.
Storage:	Store in a cool, dry area at room temperature. Do not use or store near heat/sparks/open flame/ or hot surfaces, keep away from direct sunlight. Keep container tightly closed when not in use. Avoid storing below 40°F (4°C). Keep out of reach of children and livestock. Store in locked location.

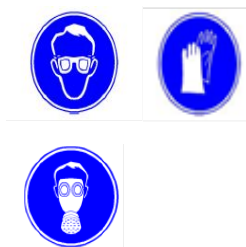


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Fludioxonil CAS# 131341-86-1
No data available.

Engineering Controls: Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

Personal Protective Equipment :



Clothing: Wear protective clothing and chemical resistant gloves when handling.

Eye Protection: Wear safety glasses. Eye fountain and washing facilities should be present at work area.

Respiratory Protection: Not normally required unless fogging. Fogging applicators must have access to a NIOSH-approved full-face respirator with organic vapor filter.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Light brown liquid	Upper/Lower flammability limits:	Not available
Odor:	Ester-like	Vapor pressure:	Not available
Odor threshold:	Not available	Vapor density: (air =1)	Not available
pH:	4.0 – 6.0	Specific Gravity: (H₂O = 1)	1.015
Melting/Freezing point:	Not available	Solubility:	Dispersible
Boiling point:	Not available	Partition coefficient (n-octanol-water):	Not available
Flash point:	79°F(26°C)Closed cup method	Auto-ignition temperature:	Not available
Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability (solid, gas):	Not applicable	Viscosity:	27.2 mm ² /s (cSt) @ 20°C

10. STABILITY & REACTIVITY

Reactivity hazards:	None known
Chemical stability:	Stable at ambient conditions
Conditions to avoid:	Heat, sparks, flames, hot surfaces.
Incompatible materials:	Strong oxidizers. Incompatible with water, ammonium phosphate and potassium permanganate.
Hazardous decomposition products:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Acute Oral:	LD ₅₀ (estimate): > 5000 mg/kg	Based on Ingredients
	Acute Dermal:	LD ₅₀ (estimate): > 4800 mg/kg	Based on Ingredients
	Inhalation:	LC ₅₀ (estimate): > 20 mg/L	Based on Ingredients
Skin corrosion/irritation:	Causes skin irritation		
Eye damage/irritation:	Causes serious eye damage.		
Respiratory/Skin			



sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity:	Not available
Carcinogenicity:	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.
Reproductive toxicity:	Occasional workplace exposure is not expected to present a hazard.
Target organ effects:	Fludioxonil may cause damage to the kidneys and liver with repeated or prolonged exposure.
Aspiration hazard:	Material does not present an aspiration hazard.
Potential health effects:	FLAMMABLE: Can cause serious eye damage. Prolonged or repeated contact may cause skin irritation.

12. ECOLOGICAL INFORMATION

Toxicity:	LC ₅₀ (96-hr) fish: > 17.67 mg/L (estimate) Acute toxicity: Water flea, acute toxicity: LC50/EC50: 0.9 ppm Rainbow trout, acute toxicity: LC50/EC50: 0.47 ppm Bees, acute toxicity : LC50/EC50: > 25 µg/bee Bobwhite quail, acute toxicity : LC50/EC50: > 5200 ppm	Based on Ingredients fludioxonil
Persistence/ degradability:	Not available	
Bioaccumulative potential:	Not available	
Mobility in soil:	Not available	
Other adverse effects:	Toxic to aquatic life.	

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
--------------------------	---

14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
UN number:	UN1993	UN1993	UN1993
Proper shipping name:	Flammable liquid, n.o.s. (ethyl acetate, amyl acetate)	Flammable liquid, n.o.s. (ethyl acetate, amyl acetate)	Flammable liquid, n.o.s. (ethyl acetate, amyl acetate)
Hazard class(es):	3	3	3
Packing group:	III	III	III
Special precautions:	None		

15. REGULATORY INFORMATION

FIFRA:	This product is registered with the U.S. EPA under registration number 64864-67.
SARA 313:	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
TSCA:	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
WHMIS:	This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



16. OTHER INFORMATION

HMIS Ratings:

Health – 2

Flammability – 2

Reactivity – 0

NFPA Ratings:



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

SDS preparation date: April 7, 2016

Replaces MSDS dated: May 26, 2015

Changes since last revision: Composition/Information on Ingredients and Transportation Information updated

