

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: eFOG®-160 PYR **EPA Reg# 64864-61**
Product Code: 10313
Product Use: Fungicide for Postharvest Pome Fruit Treatment by Thermal Fogging
Product Restrictions: For Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information
Manufacturer: 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 (PROPHARMA)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification:

Physical Hazards

Flammable liquid, Category 3

Health Hazards

Eye irritation, Category 2B

Specific Target Organ Toxicity – single exposure, Category 3 respiratory tract irritation

Specific Target Organ Toxicity – single exposure, Category 3 narcotic effects

Environmental Hazards, Not classified.

Hazard Symbols:



Signal Word:

WARNING

Hazard Statements:

H226 Flammable liquid and vapor.

H320 Causes eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Other Hazards:

Hazard(s) not otherwise classified (HNOX):

Supplemental information

Precautionary Statements:

Prevention Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces and other ignition sources. 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.

P264 Wash hands thoroughly after handling.

P261 Avoid breathing fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

Response Statements:

P370/378 In case of fire: Use dry chemical, CO₂ to extinguish.

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337/313 If eye irritation persists: Get medical advice/attention.

P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

Storage Statements:

P403/233/235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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.

None known.

None known.

US: Exempt - EPA Reg. # 64864-61 EPA Est. # 64864-WA-1

This is a registered EPA product. The product labeling is in compliance with EPA regulations and guidelines.

Refer to product label for further information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	%
Pyrimethanil	53112-28-0	16%
Acetic acid ethyl ester	141-78-6	10 – 30*

Composition comments: *US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. FIRST AID MEASURES

General Advice:

Have the product container, label or Safety Data Sheet with you when calling a poison control center, physician or going for treatment. You may also contact PROPHARMA 1-888-271-4649 for emergency medical treatment information.

Inhalation:

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. Call a poison control center or doctor for further treatment advice.

Skin contact:

IF ON SKIN OR CLOTHING: Take off immediately all contaminated clothing. Wash skin with plenty of soap and water/shower for 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:

IF IN EYES: Hold eye open and cautiously rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses if present and easy to do after the first 5 minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER/doctor for medical advice/attention. Have person sip a glass of water if able to swallow. 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.

Most important Symptoms / effects, acute and Delayed: Indication of any immediate medical attention and special treatment needed:

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Causes eye irritation. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

Unsuitable Extinguishing Media: Special Hazards Arising from the Chemical:

Do not use water jet as an extinguisher, as this will spread the fire. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Firefighting equipment/instructions: Specific methods:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: Hazardous combustion products:

Highly flammable liquid and vapor.

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide (hydrocyanic acid).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas. Wipe or mop up liquid, if any, and dispose properly. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental Precautions:

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. HANDLING & STORAGE

Precautions for Safe Handling:

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that

Conditions for Safe Storage, including any Incompatibilities:

will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Wear appropriate personal protective equipment when handling this product.

Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Avoid storing below 40°F or above 100°F. Do not use or store near heat or open flames. In case of spill or leak, absorb liquid with sawdust or other absorbent material and incinerate or dispose of it in approved disposal area. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetic acid ethyl ester (CAS# 141-78-6)	PEL	1400 mg/m ³ 400 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Acetic acid ethyl ester (CAS# 141-78-6)	TWA	400 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetic acid ethyl ester (CAS# 141-78-6)	TWA	1400 mg/m ³ 400 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

See above

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear chemical goggles, safety glasses or face shield.

Skin protection

Hand protection

Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile, rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils or Viton ≥ 14 mils.,
Handlers (including mixers, loaders, persons cleaning or setting up the fogging equipment, and persons handling treated fruit still wet with product) and fogging applicators must wear: Long-sleeved shirt and long pants, Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile, rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils or Viton ≥ 14 mils., Shoes and socks, Protective eyewear (goggles, safety glasses, or a face shield).

Other

Respiratory protection

While respiratory protection is not normally required when using this product, fogging applicators must keep a minimum of an NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination N, R, or P filter readily available in case of rare instances where fog may be blown back to the applicator, such as an equipment malfunction or insufficient room seal.

Thermal hazards

Not applicable.

General hygiene considerations

Follow manufacturer's instructions for cleaning/handling PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been fogged or

heavily contaminated with the product's concentrate. Do not reuse them.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. When using, do not eat, drink or smoke.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Clear yellow liquid	Vapor pressure:	Not available
Odor:	Acetone	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.0
pH:	6.0	Solubility:	Dispersible
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available
Pour Point:	Not available	Auto-ignition temperature:	Not available
Initial boiling point and boiling range:	212°F (100°C)	Decomposition temperature:	Not available
Flash point:	109°F (42.8°C)	Viscosity:	28.8 mm ² /s (cSt) @ 25°C
	Closed cup method	Explosive properties:	Not explosive
Evaporation rate:	Not available	Oxidizing properties:	Not oxidizing
Flammability (solid, gas):	Not applicable		

10. STABILITY & REACTIVITY

Reactivity hazards:	This product may react with strong oxidizing agents.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
Incompatible materials:	Nitrates.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.	
Information on likely routes of exposure		
Ingestion	May cause stomach distress, nausea or vomiting.	
Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Causes eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Causes eye irritation.	
Information on toxicological effects		
Acute toxicity	Narcotic effects. May cause an allergic skin reaction.	
Product	Species	Test Results
ecoFog-160 PYR (CAS Mixture)		
Acute		
Dermal		
LD50	Rat	>5000 mg/kg, tested
Inhalation		
LC50	Rat	>5.2 mg/l/4h, tested
Oral		
LD50	Rat	>5000 mg/kg, tester
Components	Species	Test Results
Acetic acid ethyl ester (CAS# 141-78-6)		
Acute		
Dermal		
LD50	Rabbit	>20000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	>22.5 mg/L, 6 hours, ECHA

Oral LD50 Pyrimethanil (CAS# 53112-28-0)	Rabbit	4934 mg/kg, ECHA
Acute Dermal LD50	Rat	> 5000 mg/kg, Sigma Aldrich
Inhalation LC50	Not available	
Oral LD50	Rat	4150 – 5970 mg/kg, Sigma Aldrich
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation:	Causes serious eye irritation.	
Respiratory sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity:	Not available	
Carcinogenicity:	See below.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.	
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.	
Teratogenicity:	Not available.	
Specific target organ toxicity - single exposure:	May cause drowsiness and dizziness. May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure:	Not classified.	
Aspiration hazard:	Material does not present an aspiration hazard.	
Chronic effects:	Prolonged inhalation may be harmful.	

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product is toxic to fish and aquatic invertebrates.	
	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 by cleaning of equipment or disposal of waste.	
Ecotoxicological data	Species	Test Results
Components		
Acetic acid ethyl ester (CAS# 141-78-6)		
Crustacea EC50	Daphnia	560 mg/L, 48 Hours
Aquatic		
Fish LC50	Indian catfish (Heteropneustes fossilis)	200.32–225.42 mg/L, 96 hours
Persistence/ degradability:	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil:	Not available.	
Mobility in general:	Toxic to aquatic organisms. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.	
Other adverse effects:		

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Hazardous waste code:	This material, in its original form and concentration, would designate as a D001 federal hazardous waste for ignitability when disposed.
Waste from residues / unused products:	DISPOSAL OF UNUSED, UNWANTED PRODUCT: For information on unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.
Contaminated packaging:	CONTAINER DISPOSAL: Non-refillable container. DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment

or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning, stay out of smoke.

14. TRANSPORT INFORMATION

Transport of Dangerous Goods (TDG) Proof of Classification

Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.

U.S. Department of Transportation (DOT)

UN number:

UN1993

Proper shipping name:

Flammable Liquid, n.o.s. (Acetic acid ethyl ester)

Hazard class(es):

3

Packing group:

II

Marine Pollutant:

IMDG Regulated Marine Pollutant.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This is an EPA registered product. This material can only be used commercially in the EPA registered application(s) noted on the product label.

Product Registration: EPA Reg. # 64864-61 EPA Est. # 64864-WA-1
KEEP OUT OF THE REACH OF CHILDREN.

PRECAUTIONARY STATEMENTS:

Hazard to humans and domestic animals.

Caution. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear protective eyewear. Harmful if swallowed. Harmful if absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet

PHYSICAL OR CHEMICAL HAZARD:

Flammable. Keep away from heat or open flame.

ENVIRONMENTAL HAZARDS:

DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This product is toxic to fish and aquatic invertebrates. DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetic acid ethyl ester (CAS# 141-78-6)

Listed

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No

Classified Hazard

Flammable (gases, aerosols, liquids, or solids)

Categories

Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US STATE REGULATIONS

US - California Hazardous Substances (Director's): Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

Listed

US - Illinois Chemical Safety Act: Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

US - Louisiana Spill Reporting: Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

Listed

US - Minnesota Haz Subs: Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

Listed

US - North Carolina Toxic Air Pollutants: Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

US - Texas Effects Screening Levels: Listed substance

Acetic acid ethyl ester (CAS# 141-78-6)

Listed

US. Massachusetts RTK - Substance List

Acetic acid ethyl ester (CAS# 141-78-6)

US. New Jersey Worker and Community Right-to-Know Act

Acetic acid ethyl ester (CAS# 141-78-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetic acid ethyl ester (CAS# 141-78-6)

US. Rhode Island RTK

Acetic acid ethyl ester (CAS# 141-78-6)

US. California Proposition 65

Not listed.

Inventory status

Country(s) or region

Inventory name

On inventory
(yes/no)*

Canada

Domestic Substances List (DSL)

No

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

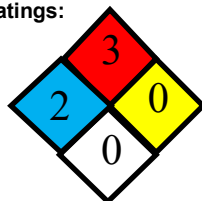
HMIS Ratings:

Health – 2

Flammability – 3

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 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: September 25, 2025
Changes since last revision: Rebranding

Replaces MSDS dated: December 19, 2022
Version: 8