

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

# POSTHARVEST

# **SAFETY DATA SHEET**

### 1. PRODUCT & COMPANY IDENTIFICATION

Product Name: eFOG®-180 EPA Reg# 64864-60

Product Code: 10309

Product Use: Anti-scald Agent for Post Harvest Treatment of Pears 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 (PROSAR)

Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### Classification:

Physical Hazards, Flammable Liquid and

Vapor

Acute toxicity, oral - Category 4 Acute toxicity, dermal - Category 4 Serious eye damage / eye irritation,

Category 2B

Skin Sensitization, Category 1

#### **Hazard Symbols:**





Signal Word: WARNING

### **Hazard Statements:**

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H320 Causes eye irritation.

H317 May cause an allergic skin reaction

# **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 wear a NIOSH-approved full-face respirator with organic vapor filter.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P272 Contaminated work clothing should not be allowed out of the

workplace.

#### 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, CO<sub>2</sub> to extinguish.

P333/313 If skin irritation or rash occurs: Get medical

advice/attention.

P321 Specific treatments see Section 4 First Aid Measures on SDS.

P363 Wash contaminated clothing before reuse.

P301/312 IF SWALLOWED: Call a POISON CENTER/doctor if you

feel unwell.

P330 Rinse mouth.

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

minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

**Storage Statements:** 

P403/235 Store in a well-ventilated place. Keep cool.

#### **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.

Other Hazards:

Hazard(s) not otherwise classified

(HNOC):







Supplemental information

This is a registered EPA product Reg # 64864-60. The product labeling is in compliance with EPA regulations and guidelines Refer to product label for further information.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS# Ingredient Concentration (w/w %)

Ethoxyquin (6-Ethoxy-1,2-dihydro-2,2,4-trimeth 91-53-2

yl quinoline).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. FIRST AID MEASURES

**General Advice:** Have the product container, label or Safety Data Sheet with you when calling

> a poison control center or physician or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical

treatment information.

If on Skin: Take off immediately all contaminated clothing. Wash skin with plenty of soap

and water/shower for 15 - 20 minutes. Call a POISON CENTER/doctor for

treatment advice. Wash contaminated clothing before reuse.

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. Call a POISON CENTER/doctor for

treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. 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.

If Inhaled: Remove person to fresh air and keep comfortable for breathing. 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 treatment advice.

Most important

Symptoms / effects, acute and

Delayed:

Indication of any immediate medical attention and special

treatment needed:

Severe eye irritation. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Symptoms

may be delayed.

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: **Unsuitable Extinguishing** 

Media:

Special Hazards Arising from

the Chemical:

Special protective equipment and precautions for

firefighters: Fire-fighting

equipment/instructions:

Specific methods:

General fire hazards: **Hazardous combustion** 

products:

Foam. Dry chemical powder. Carbon dioxide.

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn

in case of fire.

Move containers from fire area if you can do so without risk. Water spray may

be used to keep fire exposed containers cool.

Use standard firefighting procedures and consider the hazards of other

involved materials.

No unusual fire or explosion hazards noted. Not a fire hazard.

May include and are not limited to: Oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrogen chloride and 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. Wear appropriate protective equipment and clothing during cleanup. 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: Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer,

basements or confined areas.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see

section 13 of the SDS.

**Environmental precautions:** DO NOT contaminate irrigation or drinking water supplies or aquatic habitats

by cleaning of equipment or disposal of wastes. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries,

oceans or other waters.

#### 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 taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store in a well-ventilated area at temperatures above 40°F. Store away from incompatible materials (see Section 10 of the SDS).

PESTICIDE STORAGE: Avoid storing below 40°F. 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 and livestock.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: **Biological limit values** Appropriate engineering controls

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

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 Skin protection Hand protection

Other

Wear chemical goggles, safety glasses or face shield.

Chemical-resistant gloves made of any waterproof material such as polyvinyl

chloride, nitrile rubber, or butyl rubber

Mixers, loaders, applicators and other handlers must wear: longs-sleeved

shirt, long pants and shoes plus socks.

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.

Respiratory protection Mixers, loaders, applicators and other handlers must wear: A NIOSH-

approved particulate respirator with any N, R or P filter with NIOSH approval number prefix TC-84A, or a NIOSH approved powered air purifying respirator

with HE filter with NIOSH approval number prefix TC-21C.

Thermal hazards General hygiene considerations Not applicable.

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. Routinely wash protective equipment to remove contaminants.



46.9 mm2/s (20°C), 17.2 mm2/s



## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid Upper/Lower flammability Not available limits: Appearance / Color: Dark brown Vapor pressure: Not available Odor: Vapor density: (air =1) Not available Faint solvent Specific Gravity: (H<sub>2</sub>O = 1) Odor threshold: Not available 0.97 - 0.99pH: Solubility: Not available 7 - 8 Melting/Freezing point: Partition coefficient Not available Not available (n-octanol-water):

>752°F (>400°C) **Pour Point:** Not applicable Auto-ignition temperature: Initial boiling point and Not applicable Decomposition Not available

boiling range: temperature:

Flash point: 91.4°F (33.0°C) Viscosity:

Closed cup (40°C) Not available **Explosive properties:** Not explosive

Evaporation rate: Flammability (solid, gas): Not applicable Oxidizing properties: Not oxidizing

### 10. STABILITY & REACTIVITY

Reactivity hazards: This product may react with strong oxidizing agents.

Possibility of Hazardous No dangerous reaction known under conditions of normal use.

Reactions:

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Keep away from heat / hot surfaces / sparks / open flames / and other ignition

sources. Do not mix with other chemicals.

Incompatible materials: Acids, alkaline metals, isocyanates and oxidizers.

Hazardous decomposition May include and are not limited to: Oxides of nitrogen, oxides of sulfur, oxides

products: of carbon and hydrogen chloride.

### 11. TOXICOLOGICAL INFORMATION

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin corrosion / Harmful in contact with skin. May cause skin contact sensitization.

irritation:

Eye damage / Causes eye irritation.

irritation:

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting. Symptoms related to the Irritation of eyes. May cause redness and pain. Symptoms may include

physical, chemical and stinging, tearing, redness, swelling, and blurred vision.

toxicological characteristics Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful if swallowed. Moderate eye irritation.

Test Results Components **Species** 

Ethoxyquin (6-Ethoxy-1,2-dihydro-2,2,4-trimethyl quinoline). (CAS 91-53-2)

Acute **Dermal** 

LD50 Rat 1675 mg/kg, ECHA Inhalation Rat >2 mg/l/4h, ECHA LC50 Oral

LD50 >2000 mg/kg, ECHA

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation:

Not available **Exposure minutes** Erythema value Not available Oedema value Not available Serious eye damage/eye Causes eye irritation.

Irritation:

Corneal opacity value Not available Iris lesion value Not available Conjunctival reddening Not available value

Conjunctival oedema value Not available Recover days Not available

Respiratory sensitization: Not a respiratory sensitizer.

May cause sensitization by skin contact. Skin sensitization:





**Germ cell mutagenicity:**No data available to indicate product or any components present at greater

than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Not classified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Reproductive toxicity: Not available.
Teratogenicity: Not available.
Specific target organ toxicity single exposure: Not classified.

Specific target organ toxicity - Not classified. repeated exposure:

Aspiration hazard: Material does not present an aspiration hazard. Chronic effects: Non-hazardous by WHMIS/OSHA criteria.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 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.

Persistence/ degradability: No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil: No data available.

Mobility in general: Not available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

### 13. DISPOSAL CONSIDERATIONS

Disposal instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable 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 the 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. Do not burn, unless

allowed by state and local ordinances.

Local disposal Regulations Dispose in accordance with all applicable regulations.

Hazardous waste code: This material, in its original form and concentration, would designate as a D001

federal hazardous waste for flammability when disposed.

Waste from residues / unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated packaging:

Since emptied containers may retain product residue, follow label warnings even after

container is emptied. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION







<u>DOT</u>

UN number: UN1993

Proper shipping name: Flammable liquids, n.o.s. (Ethanol)

Hazard class(es): 3
Packing group: III

Marine Pollutant: IMDG Regulated Marine Pollutant.

Packaging exceptions: 150

#### 15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

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

EPA Reg. # 64864-60 EPA Est. # 64864-WA-1

KEEP OUT OF THE REACH OF CHILDREN.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION:

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 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.

PHYSICAL OR CHEMICAL HAZARD:

Combustible. Do not use or store near heat or open flame.

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTANT WITH ITS LABELING. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical

lous chemical

No Yes

Classified Hazard Categories Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure)

Serious eye damage or eye irritation Respiratory or skin sensitization

Not regulated.

OTHER FEDERAL

SARA 313 (TRI reporting)





#### 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 - Texas Effects Screening Levels: Listed substance

Ethoxyquin (6-Ethoxy-1,2-dihydro-2,2,4-trimethyl quinoline). (CAS 91-53-2) Listed

**US. California Proposition 65** 

Not listed.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

Canada Domestic Substances List (DSL) Yes
Canada Non-Domestic Substances List (NDSL) No
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*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 – 2

Reactivity – 0



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 2021 Replaces MSDS dated: May 26, 2015

Changes since last Several updates through-out SDS all Version: 2

revision: sections.

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