

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Xedaquin 469EC **EPA Reg#** 64864-58
Product Code: 10249
Product Use: Post-Harvest Antiscald Drench or Spray Treatment for Pears
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/PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification:

Physical Hazards. Not classified.

Health Hazards

Acute toxicity, inhalation—Category 4

Sensitization, skin – Category 1

Environmental Hazards, Not classified.

Hazard Symbols:



Signal Word:

WARNING

Hazard Statements:

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

Other Hazards:

Hazard(s) not otherwise classified (HNOC):

Supplemental information:

Precautionary Statements:

Prevention Statements:

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

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective clothing, safety glasses with side shields (or goggles), and chemical resistant gloves.

Response Statements:

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

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

P302/352 IF ON SKIN: Wash with plenty of soap and water.

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

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

P362/364 Take off contaminated clothing and wash it before reuse.

Storage Statements:

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.

This is a registered EPA product.

US: Exempt – EPA Reg.# 64864-58

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 #	%
1,2-Propanediol	57-55-6	1 – 5*
Ethoxyquin	91-53-2	30 – 60*

Composition comments: All concentrations are in percent by weight.

*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 or physician or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.
Skin contact:	If on skin or clothing: Take off immediately contaminated clothing. Wash skin with plenty of soap and water/shower for 15 – 20 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	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. Call a poison control center or doctor for treatment advice.
Ingestion:	If Swallowed: Immediately call a POISON CENTER/doctor for treatment advice. Have person sip a glass of water if able to swallow. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Inhalation:	If Inhaled: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Never give anything by mouth if victim is unconscious or is convulsing.
Most important Symptoms / effects, acute and Delayed:	Direct contact with eyes and skin may cause temporary irritation.
Indication of any immediate medical attention and special treatment needed:	Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical powder. Carbon dioxide.
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special Hazards Arising from the Chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency procedures:	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, (see section 8 of the SDS).
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground. Do not allow product to enter sewers, lakes, streams or other bodies of water.
Containment / Clean-Up Methods:	Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: 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.

7. HANDLING & STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product.
Conditions for Safe Storage, including any Incompatibilities:	Store in original tightly closed container. Store in locked location. Store away from incompatible materials (see Section 10 of the SDS). Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry,

well-ventilated place. Keep out of reach of children.

PESTICIDE STORAGE: Avoid storing below 40°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:	See below		
USA Workplace Environmental Exposure Level (WEEL) Guides			
Components	Type	Value	Form
1,2-Propanediol (CAS# 57-55-6)	TWA	10 mg/m3	Aerosol
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 safety glasses with side shields (or goggles). Eye fountain and washing facilities should be available.		
Skin protection			
Hand protection	Nitrile, neoprene, and vinyl (PVC) gloves or other impervious gloves.		
Other	Mixers, loaders, applicators and other handlers must wear - long-sleeved shirt, long pants and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.		
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)		
Thermal hazards	Not applicable.		
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. When using do not eat or drink		

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Dark brown	Vapor pressure:	Not available
Odor:	Not available	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.02
pH:	7.5 @ 25°C	Solubility:	Not available
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:	Not available	Decomposition temperature:	Not available
Flash point:	294.8°F (146.0°) Closed Cup	Viscosity:	Not available
Evaporation rate:	Not available	Explosive properties:	Not explosive
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:

Conditions to avoid:

Incompatible materials:

Hazardous decomposition products:

Stable under recommended storage conditions.

Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. No smoking. Do not mix with other chemicals.

Strong oxidizing agents.

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

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

Harmful if inhaled.

Skin corrosion / irritation:

Moderately irritating to the skin based on test data.

Eye damage / irritation:

Direct contact with eyes may cause temporary irritation.

Symptoms related to the

physical, chemical and

toxicological characteristics

Information on toxicological effects

Acute toxicity

See below

Components

Species

Test Results

Xedaquin 469EC (CAS# Mixture)

Components

Species

Test Results

Acute

Dermal

LD50

Rat

>2000 mg/kg, (Tested)

Inhalation

LC50

Rat

>2 mg/l/4h, (Tested)

Oral

LD50

Rat

>2000 mg/kg, (Tested)

1,2-Propanediol (CAS# 57-55-6)

Acute

Dermal

LD50

Rabbit

>2000 mg/kg, 24 hours, ECHA

Inhalation

LC50

Rabbit

>317042 mg/m3, 2 hours, ECHA

Oral

LD50

Rat

22000 mg/kg, ECHA

Ethoxyquin (CAS# 91-53-2)

Acute

Dermal

LD50

Rat

1675 mg/kg, ECHA

Inhalation

LC50

Rat

>2 mg/l/4h, ECHA

Oral

LD50

Rat

>2000 mg/kg, ECHA

Skin corrosion/irritation:

Prolonged skin contact may cause temporary irritation.

Exposure minutes

Not available.

Erythema value

Not available.

Oedema value

Not available.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

Irritation:

Corneal opacity value

Not available.

Iris lesion value

Not available.

Conjunctival reddening value

Not available.

Conjunctival oedema value

Not available.

Recover days

Not available.

Respiratory sensitization:

Not a respiratory sensitizer.

Skin sensitization:

This product is not expected to cause 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:

No data available to indicate product or any components present at greater than 0.1%.

Reproductive toxicity:

This product is not expected to cause reproductive or developmental effects.

Teratogenicity:

Not available.

Specific target organ toxicity - single exposure:	Not classified.
Specific target organ toxicity - repeated exposure:	Not classified.
Aspiration hazard:	Material does not present an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicological data

Components	Species	Test Results
1,2-Propanediol (CAS# 57-55-6)		
Crustacea	EC50	Daphnia
		10000 mg/L, 48 hours
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Fathead minnow (Pimephales promelas)
		>10000 mg/L, 48 hours
		710 mg/L, 96 hours
Persistence/ degradability:	This product has not been tested.	
Bioaccumulative potential	This product has not been tested.	
Mobility in soil:	This product has not been tested.	
Mobility in general:	Not available.	
Other adverse effects:	Not available.	

13. DISPOSAL CONSIDERATIONS

Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate water, food, or feed by storage or disposal.
	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: Non-refillable container. Do not reuse or refill this container. For further information, see product label.
Hazardous waste code	This product, in its original form and concentration, would not designate as a US federal hazardous waste when disposed
Waste from residues / unused products	PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
	Dispose of in accordance with local regulations.
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

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.
	US: CFR 171.4:
	(1) Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packaging transported by motor vehicle, rail car or aircraft.
	(2) Single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other requirements of this subchapter provided the packaging meets the general requirements in §§173.24 and 173.24a. This exception does not apply to marine pollutants that are a hazardous waste or a hazardous substance. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this subchapter relevant to any additional hazards continue to apply.
U.S. Department of Transportation (DOT)	
Basic Shipping requirements:	
UN number:	UN3082
Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s.
Technical name:	Ethoxyquin
Hazard class:	9
Packing group:	III

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

Product Registration: EPA Reg. # EPA Est. # 64864-WA-1
64864-58

KEEP OUT OF THE REACH OF CHILDREN.

CAUTION:

If you do not understand this label, find someone to explain it to you in detail.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

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

No

SARA 311/312 Hazardous chemical

Yes

Classified Hazard
Categories

Acute toxicity (any route of exposure)
Respiratory or skin sensitization.

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 - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS# 57-55-6)

Listed

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS# 57-55-6)

Listed

Ethoxyquin (CAS# 91-53-2)

Listed

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

1,2-Propanediol (CAS# 57-55-6)

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

1,2-Propanediol (CAS# 57-55-6)

US. Rhode Island RTK

1,2-Propanediol (CAS# 57-55-6)

US. California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Inventory status

Country(s) or region

Canada

Canada

United States & Puerto Rico

Inventory name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)*

Yes

No

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 – 1

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, 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, 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. 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) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date: September 25, 2025

Replaces SDS dated: September 17, 2021

Changes since last Rebranding

Version: 3

revision: