

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

PrimaFresh®

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

PrimaFresh® 220 **Product Name:**

Product Code: 10476

Manufacturer:

Product Use: Protective Emulsion Coating for Stone Fruit and Vegetables

Product Restrictions: For Agriculture Use Only Manufacturer/Importer/Supplier/Distributor information Pace International, LLC

Address: 5661 Branch Road, Wapato, WA 98951

800-936-6750 (Monday-Friday, 7:00 a.m. - 4:00 p.m.) Phone Number: Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR) Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

Supplier: See above

2. HAZARDS IDENTIFICATION

This mixture does not meet the criteria for

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

Classification: **Precautionary Statements:** Physical Hazard, Not classified. **Prevention Statements:**

Observe good industrial hygiene practices. Health Hazard. Not classified. Environmental Hazard, Not classified. **Response Statements:**

Hazard Symbols: Wash thoroughly after handling this product.

None. **Storage Statements:**

Signal Word: Store in a cool, dry area at room temperature above 40°F and below 90°F. Do not allow this product to freeze. Keep container None. tightly closed and upright to prevent leakage and contamination.

This product contains no preservatives, so use entire contents within 45 days of opening container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of

children.

Disposal Statements:

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

Hazard(s) not otherwise classified (HNOC): None known. Other Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Hazard Statements:

classification

CAS # Chemical name Morpholine 110-91-8 0.1 - 1*Petrolatum 8009-03-8 1 - 5*White mineral oil (petroleum) 8042-47-5 10 - 30*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Composition *US GHS: The exact percentage (concentration) of composition has been withheld as a trade

comments: secret in accordance with paragraph (i) of §1910.1200

4. FIRST AID MEASURES

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

center, 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 Skin contact:

and water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated

clothing before reuse.

IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove Eye contact:

contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. If

eye irritation persists: Get medical advice/attention.

Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to Ingestion:

reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is

convulsing. Obtain medical attention.

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Most important Symptoms /

effects, acute and delayed Indication of any immediate medical

attention and

special treatment needed:

Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Unsuitable Extinguishing Media: Special Hazards Arising from the

Chemical:

Special protective equipment and precautions for firefighters:

Firefighting

equipment/instructions:

Specific methods:

General fire hazards:

Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

Firefighters must wear full protective clothing including self-contained

breathing apparatus. Water spray may be used to keep fire exposed containers cool. Move

containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other

involved materials.

No unusual fire or explosion hazards noted.

Hazardous combustion products: May include and are not limited to: Oxides of carbon and oxides of nitrogen.

ACCIDENTAL RELEASE MEASURES

Personal Precautions, **Protective Equipment and Emergency procedures:**

Methods and Materials for Containment and Clean-Up: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, (see section 8 of the SDS). 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.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground. Do not discharge

into lakes, streams, ponds or public waters.

HANDLING & STORAGE

Precautions for Safe Handling:

Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Wear appropriate personal protective equipment (see Section 8). Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, including anv

Incompatibilities:

Store in a cool, dry area at room temperature above 40°F and below 90°F. Do not allow this product to freeze. Keep container tightly closed and upright to prevent leakage and contamination. This product contains no preservatives, so use entire contents within 45 days of opening container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components Value Form Type Morpholine (CAS# 110-91-8) PFI 70 mg/m3 20 ppm 5 mg/m3 Petrolatum (CAS# 8009-03-8) PEL Mist White mineral oil (petroleum) (CAS# 8042-47-5) **PEL** 5 mg/m3 Mist **US. ACGIH Threshold Limit Values** Form

Components Value Type Morpholine (CAS# 110-91-8) 20 ppm TWA Petrolatum (CAS# 8009-03-8) TWA 5mg/m3

Inhalable fraction. White mineral oil (petroleum) (CAS# 8042-47-5) **TWA** 5mg/m3 Inhalable fraction.







Can be absorbed through the skin.

Not available

Not oxidizing



US. NIOSH: Pocket Guide to Chemical Hazards

Value Components Type **Form** Morpholine (CAS# 110-91-8) STEL 105 mg/m3 18 mg/m3 30 ppm 25 ppm 70 ma/m3 **TWA** 20 ppm 10 mg/m3 Petrolatum (CAS# 8009-03-8) STEL Mist 5 mg/m3 TWA Mist White mineral oil (petroleum) (CAS# 8042-47-5) 10 mg/m3 **STEL** Mist **TWA** 5 mg/m3 Mist

Biological Limit Values: No biological exposure limits noted for the ingredients.

Exposure Guidelines:

US. ACGIH Threshold Limit Values: Skin designation

Morpholine (CAS# 110-91-8) Danger of cutaneous absorption.

US. NIOSH: Pocket Guide to Chemical Hazards: Skin designation

Morpholine (CAS# 110-91-8) Can be absorbed through the skin.

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

Morpholine (CAS# 110-91-8) 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 wash station and

washing facilities should be available.

Skin protection

Hand protection: Wear nitrile, neoprene, vinyl (PVC), or rubber gloves.

Wear protective clothing (long sleeved shirt, pants, and shoes). Other:

Where exposure guideline levels may be exceeded, use an approved NIOSH Respiratory protection: 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.

Handle in accordance with good industrial hygiene and safety practice. Wash General hygiene considerations: thoroughly after handling. Do not eat, drink or smoke when using this product.

PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid Upper/Lower flammability or Not available

exposure limits: Appearance / Color: Opaque, white Vapor pressure: Not available Vapor density: (air =1) Not available Odor: Odorless

Odor threshold: Not available Specific Gravity: (H₂O = 1) 0.975 Solubility: Miscible in water 89 pH: Melting/Freezing point: Not available Partition coefficient Not available

(n-octanol-water):

Initial boiling point and

Not available Auto-ignition temperature:

boiling range:

Flash point: Not flammable **Decomposition temperature:** Not available **Evaporation rate:** Not available Viscosity: 64 mm2/s @ 40° C Flammability (solid, gas): Not applicable **Explosive Properties:** Not explosive **Oxidizing Properties:**

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: Keep away from heat / hot surfaces / sparks / open flames / and other

ignition sources. Do not mix with other chemicals.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: May include and are not limited to: Oxides of carbon and 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 Prolonged inhalation may be harmful.

Skin contact
Eye contact
No adverse effects due to skin contact are expected.
Direct contact with eyes may cause temporary irritation.
Symptoms related to the
Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics Information on toxicological effects

Acute toxicity

Components Species Test Results

Morpholine (CAS# 110-91-8)

Acute Dermal

LD50 Rabbit 500 mg/kg, 24 Hours, ECHA

Inhalation

 LC50
 Rat
 8 mg/L, ECHA

 Oral
 LD50
 Rat
 1900 mg/kg, ECHA

 Components
 Species
 Test Results

Petrolatum (CAS# 8009-03-8)

Acute Dermal

LD50 Rabbit >2000 mg/kg, ECHA

Inhalation

LC50 Not available

Oral

LD50 Rat >5000 mg/kg, ECHA
Components Species Test Results

White mineral oil (petroleum) (CAS# 8042-47-5)

Acute Dermal

LD50 Rabbit >2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat >5 mg/L, 4 Hours, ECHA
Oral

LD50 Rat >5000 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
Iris lesion value
Conjunctival reddening
value
Conjunctival oedema value
Not available
Not available
Not available

Recover days

Not available
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: See below

US. California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylene oxide (CAS# 75-21-8)

IARC Monographs. Overall Evaluation of Carcinogenicity

Morpholine (CAS# 110-91-8) Volume 47, Volume 71 - 3 Not classifiable as to

carcinogenicity to humans.

White mineral oil (petroleum) (CAS# 8042-47-5) Volume 33, Supplement 7-3 Not classifiable as to

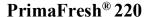
carcinogenicity to humans.

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

Not listed.

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







Teratogenicity: Specific target organ toxicity -

single exposure:

Not available. Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure: Aspiration hazard:

Material does not present an aspiration hazard.

Prolonged inhalation may be harmful. Chronic effects:

12. ECOLOGICAL INFORMATION

See below. **Ecotoxicity** Ecotoxicological data **Species**

Test Results

Components

Morpholine (CAS# 110-91-8)

Aquatic

Fish LC50 Zebra danio (Danio rerio) >1 mg/L, 96 hours

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

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.

Disposal should be made in accordance with applicable regional, national and local

laws and regulations.

Local disposal

Regulations

Dispose of in accordance with local regulations.

This product, in its original form and concentration, would not designate as a US

federal hazardous waste when disposed.

Waste from residues / unused products

Hazardous waste code

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

Transport of Dangerous Goods (TDG) Proof of

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

Classification and product classification will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL This product is a "Non-Hazardous Chemical" as defined by the OSHA Hazard

REGULATIONS Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Morpholine (CAS# 110-91-8) 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 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

Morpholine (CAS# 110-91-8)

Petrolatum (CAS# 8009-03-8)

Listed

White mineral oil (petroleum) (CAS# 8042-47-5)

Listed

US - Illinois Chemical Safety Act: Listed substance

Morpholine (CAS# 110-91-8)

US - Louisiana Spill Reporting: Listed substance

Morpholine (CAS# 110-91-8) Listed

US - Minnesota Haz Subs: Listed substance

Morpholine (CAS# 110-91-8)

Petrolatum (CAS# 8009-03-8)

White mineral oil (petroleum) (CAS# 8042-47-5)

Listed

Listed

US - Texas Effects Screening Levels: Listed substance

Morpholine (CAS# 110-91-8)

Petrolatum (CAS# 8009-03-8)

Listed

White mineral oil (petroleum) (CAS# 8042-47-5)

Listed

US. Massachusetts RTK - Substance List

Morpholine (CAS# 110-91-8) Petrolatum (CAS# 8009-03-8)

White mineral oil (petroleum) (CAS# 8042-47-5)

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

Morpholine (CAS# 110-91-8)

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

Morpholine (CAS# 110-91-8) Petrolatum (CAS# 8009-03-8)

White mineral oil (petroleum) (CAS# 8042-47-5)

US. Rhode Island RTK

Morpholine (CAS# 110-91-8) Petrolatum (CAS# 8009-03-8)

White mineral oil (petroleum) (CAS# 8042-47-5)

US. California Proposition 65



WARNING: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

US. California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylene oxide (CAS# 75-21-8) Listed: July 1, 1987

US. California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS# 75-21-8)

Retinol, hexadecanoate (CAS# 79-81-2)

Listed: August 7, 2009

Listed: July 1, 1989

US. California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS# 75-21-8) Listed: February 27, 1987

US. California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS# 75-21-8) Listed: August 7, 2009

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)	No
	Inventory	

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





16. OTHER INFORMATION

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL	Х
PROTECTION	



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: November 10, 2020 Replaces SDS dated: May 26, 2015

Changes since last Several updates throughout SDS all Version: 2

revision: sections.

