

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PrimaFresh 60-OR
Product Code: 10311
Product Use: Vegetable Oil-Based Protective Coating for Organic Stone Fruit and Vegetables
Product Restrictions: For Agriculture Use Only
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, Not classified
 Health Hazards,
 Skin Sensitization, Category 1
 Environmental Hazards, Not classified

Hazard Symbols:



Signal Word:

WARNING

Hazard Statements:

H317 May cause an allergic skin reaction.

Other Hazards:

Hazard(s) not otherwise classified (HNOC):

Supplemental information

Precautionary Statements:

Prevention Statements:

P261 Avoid breathing mists, vapors or spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective clothing, safety goggles or face shield and chemical resistant gloves.

Response Statements:

P302/352 IF ON SKIN: Wash with plenty of soap and water.
 P321 Specific treatments see Section 4 First Aid Measures.
 P333/313 If skin irritation or rash occurs: Get medical advice/attention.
 P362/364 Take off contaminated clothing and wash it before reuse.

Storage Statements:

Store away from incompatible materials.

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.

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Hydrogen peroxide	7722-84-1	0.1 - 1 *
Olive oil	8001-25-0	1 - 5 *
Sodium hydroxide	1310-73-2	0.1 - 1 *
Sunflower oil	8001-21-6	10 - 30 *
Stabilizer	Trade Secret	0.5 - 1.5*

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

***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 or physician or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.



If on Skin:	Wash skin with plenty of soap and water/shower. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Wash before reuse.
If in Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If Swallowed:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor for medical advice. Do not give anything by mouth to an unconscious person.
If Inhaled:	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Most important Symptoms / effects, acute and Delayed:	May cause an allergic skin reaction. Dermatitis. Rash.
Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific 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.
Fire-fighting 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.
Hazardous combustion products:	May include and are not limited to: Oxides of carbon.

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 clean-up. Do not breathe mist, vapor, or spray. 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.
Methods and materials for containment and cleaning up:	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.
Environmental precautions:	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

7. HANDLING & STORAGE

Precautions for safe handling:	Do not breathe mist, vapor, or spray. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after
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Conditions for safe storage, including any incompatibilities:

handling. Use good industrial hygiene practices in handling this material. When handling this material do not eat, drink or smoke. Store in a cool, dry area at room temperature, and away from direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed and upright to prevent leakage and contamination. To prevent contamination, maintain pump suction tube in a sanitary condition if it will be inserted into product container when not in use. Once opened use entire contents within 45 days. Keep out of reach of children and livestock.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

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

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m ³ 1 ppm
Olive oil (CAS 8001-25-0)	PEL	5 mg/m ³ Respirable fraction 15 mg/m ³ Total dust
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m ³
Sunflower oil (CAS 8001-21-6)	PEL	5 mg/m ³ Respirable fraction 15 mg/m ³ Total dust

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³ 1 ppm
Olive oil (CAS 8001-25-0)	TWA	5 mg/m ³ Respirable fraction 10 mg/m ³ Total dust
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
Sunflower oil (CAS 8001-21-6)	TWA	5 mg/m ³ Respirable fraction 10 mg/m ³ Total dust

Biological limit values:

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

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. Eye fountain and washing facilities should be available.

Skin protection

Hand protection

Wear impervious gloves. Confirm with reputable supplier first.

Other

Wear appropriate chemical resistant clothing. As required by employer code. Use of protective clothing (long sleeve shirt and pants). Use of an impervious apron is recommended.

Respiratory protection

Not normally required if good ventilation is maintained. 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

Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Wash thoroughly after handling. Routinely wash work clothing and protective equipment to remove contaminants.



9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance:	Opaque, yellow	Vapor pressure:	Not available
Odor:	Waxy, citrus	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.0 – 1.02
pH:	10 – 10.5	Solubility:	Miscible in water
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:	Not available	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 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. No smoking. Do not mix with other chemicals.
Incompatible materials:	Strong oxidizing agents. Acids.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon.

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	No adverse effects due to inhalation are expected.	
Skin contact	May cause an allergic skin reaction.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects		
Acute toxicity	None known.	
Components	Species	Test results
Hydrogen peroxide (CAS 7722-84-1)		
Acute		
Dermal		
LD50	Rabbit	>2000 mg/kg, 24 Hours, ECHA 3000 – 5480 mg/kg, ECHA
Inhalation		
LC50	Rat	>170 mg/m ³ , 4 Hours, ECHA
Oral		
LD50	Rat	1270 mg/kg, ECHA 1193 mg/kg, ECHA 1026 mg/kg, ECHA, male 872 mg/kg, ECHA 801 mg/kg, ECHA 693.7 mg/kg, ECHA, female
Components	Species	Test results
Stabilizer (CAS Trade secret)		
Acute		
Dermal		
LD50	Rabbit	>5000 mg/kg, Sigma Aldrich
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	>5000 mg/kg, Sigma Aldrich



Components	Species	Test results
Olive oil (CAS 8001-25-0)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Components	Species	Test results
Sodium hydroxide (CAS 1310-73-2)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rabbit	325 mg/kg, ECHA
Components	Species	Test results
Sunflower oil (CAS 8001-21-6)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation:	Direct contact with eyes may cause temporary irritation.	
Respiratory or Skin sensitization:	Not a respiratory sensitizer. May cause an allergic skin reaction.	
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic See below.	
Carcinogenicity:	See below.	
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:	Not available.	
Specific target organ toxicity - single exposure:	Not classified.	
Specific target organ toxicity - repeated exposure:	Not classified.	
Aspiration hazard:	Not an aspiration hazard.	

12. ECOLOGICAL INFORMATION

Ecotoxicity	See below	
Ecotoxicological data		
Components	Species	Test results
Hydrogen peroxide (CAS 7722-84-1)		
Algae IC50	Algae	2.5 mg/L, 72 Hours
Crustacea EC50	Daphnia	7.7 mg/L, 48 Hours
Sodium Hydroxide (CAS 1310-73-2)		
Aquatic		
Crustacea EC50	Water flea (Ceriodaphnia dubia)	34.59 – 47.13 mg/L, 48 Hours
Fish LC50	Western mosquitofish (Gambusia affinis)	125 mg/L, 96 Hours
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 methods:	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.
Local disposal regulations:	Dispose of in accordance with local regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, producer and the waste disposal company.
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

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
U.S. Department of Transportation (DOT)	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS	This product is a "Hazardous Chemical" as defined by the OSHA Hazard 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)	Sodium Hydroxide (CAS 1310-73-2)	Listed.
SARA 304 Emergency release notification	Hydrogen peroxide (CAS 7722-84-1)	1000 lbs
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		Not Listed.
SARA 302 Extremely hazardous substance	No	
Classified Hazard Categories	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 - California Hazardous Substances (Director's): Listed substance	Hydrogen peroxide (CAS 7722-84-1)	Listed
	Sodium Hydroxide (CAS 1310-73-2)	Listed
US - Illinois Chemical Safety Act: Listed substance	Hydrogen peroxide (CAS 7722-84-1)	
	Sodium Hydroxide (CAS 1310-73-2)	
US - Louisiana Spill Reporting: Listed substance	Sodium Hydroxide (CAS 1310-73-2)	Listed
US - Minnesota Haz Subs: Listed substance	Hydrogen peroxide (CAS 7722-84-1)	Listed
	Olive oil (CAS 8001-25-0)	Listed
	Sodium Hydroxide (CAS 1310-73-2)	Listed
	Sunflower oil (CAS 8001-21-6)	Listed
US - Texas Effects Screening Levels: Listed substance	Hydrogen peroxide (CAS 7722-84-1)	Listed
	Stabilizer (CAS Trade secret)	Listed
	Olive oil (CAS 8001-25-0)	Listed
	Sodium Hydroxide (CAS 1310-73-2)	Listed
	Sunflower oil (CAS 8001-21-6)	Listed



US. Massachusetts RTK - Substance List

Hydrogen peroxide (CAS 7722-84-1)
Olive oil (CAS 8001-25-0)
Sodium Hydroxide (CAS 1310-73-2)
Sunflower oil (CAS 8001-21-6)

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

Hydrogen peroxide (CAS 7722-84-1)
Sodium Hydroxide (CAS 1310-73-2)

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

Hydrogen peroxide (CAS 7722-84-1)
Olive oil (CAS 8001-25-0)
Sodium Hydroxide (CAS 1310-73-2)
Sunflower oil (CAS 8001-21-6)

US. Rhode Island RTK

Hydrogen peroxide (CAS 7722-84-1)
Olive oil (CAS 8001-25-0)
Sodium Hydroxide (CAS 1310-73-2)
Sunflower oil (CAS 8001-21-6)

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)

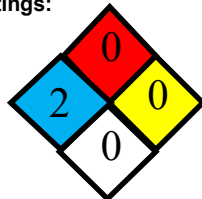
16. OTHER INFORMATION

HMIS Ratings:
NFPA Ratings:

Health – 2

Flammability – 0

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, 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: December 16, 2019 **Replaces SDS dated:** May 26, 2015
Changes since last revision: Several GHS updates through-out SDS all sections. **Version:** 2

