

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PrimaFresh[®] 55 EU
Product Code: 10385
Product Use: Vegetable Oil-Based Protective Coating for Stone Fruit and Vegetables
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 Hazards, Not Classified
 Sensitization, Skin 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 mist, vapors or spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective clothing, chemical resistant gloves, and safety glasses.
Response Statements:
 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:
 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

Mixture

<u>Chemical Name</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Oils, clove	8000-34-8	0.1 – 1*
9-Octadecenoic acid-, ammonium salt	544-60-5	5 – 10*
Vegetable Oil	Trade Secret	1 – 5*
Vegetable Oil (2)	Trade Secret	10 – 30*

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: Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Advice:



If on Skin:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get Medical advice/attention. Take off contaminated clothing. Wash contaminated clothing before reuse.
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. If eye irritation persists: Get medical advice/attention.
If Swallowed:	Call a poison control center or doctor for treatment advice. 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:	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.
Most important Symptoms / effects, acute and Delayed:	Direct contact with eyes may cause temporary irritation. 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.
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.
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.
General fire hazards:	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency procedures:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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).
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.
Environmental Precautions:	Never return spills to original containers for re-use. 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 mists, vapors, or spray. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Eating, drinking and smoking in work areas is prohibited.

Conditions for Safe Storage, including any Incompatibilities: Store in a dry and cool area. Do not allow product to freeze. Store indoors at temperatures between 40°-90°F. Keep container closed and upright to prevent leakage and contamination. Once opened, use entire contents within 45 days. 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	Form
Vegetable Oil (Trade Secret)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust
Vegetable Oil (2) (Trade Secret)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Vegetable Oil (Trade Secret)	TWA	5 mg/m3	Respirable mist
		10 mg/m3	Total mist
Vegetable Oil (2) (Trade Secret)	TWA	5 mg/m3	Respirable mist
		10 mg/m3	Total mist

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 safety glasses with side shields (or goggles). 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. Use of an impervious apron is recommended. As required by employer code.
- 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. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance:	Cream / white, opaque	Vapor pressure:	Not available



Odor:	Ammonia smell	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	.93
pH:	10.1	Solubility:	Miscible with 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:	212°F (100°C)	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:	Do not mix with other chemicals.
Incompatible materials:	Strong oxidizing agents.
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 corrosion / irritation:	May cause an allergic skin reaction.	
Eye damage / irritation:	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects		
Acute toxicity	May cause an allergic skin reaction.	
Components	Species	Test Results
9-Octadecenoic acid-, ammonium salt (CAS 544-60-5)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Components	Species	Test Results
Vegetable Oil (Trade Secret)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	>5000 mg/kg, Santa Cruz Biotechnology Inc.
Components	Species	Test Results
Oils, clove (CAS 8000-34-8)		



Acute		
<i>Dermal</i>		
LD50	Rabbit	5000 mg/kg, RTECS
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	2650 mg/kg, RTECS
Components	Species	Test Results
Vegetable Oil (2) (Trade Secret)		
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 sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	May cause an allergic skin reaction.	
Germ cell mutagenicity:	Not available.	
Carcinogenicity:	See below.	
IARC Monographs. Overall Evaluation of Carcinogenicity		Not listed.
US National Toxicology Program (NTP) Report on Carcinogens		Not listed.
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:	Not classified.	
Specific target organ toxicity - repeated exposure:	Not classified.	
Aspiration hazard:	Material does not present an aspiration hazard.	
Chronic effects:	None known.	

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
Persistence/ degradability:	No data is available on the degradability of this product.
Bioaccumulative potential	Not 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal Regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the 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
U.S. Department of Transportation (DOT)
 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.
 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)

CERCLA Hazardous Substance List (40 CFR 302.4) Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories
 Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
9-Octadecenoic acid-, ammonium salt	544-60-5	5 – 10*

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 Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List Not regulated.

US. New Jersey Worker and Community Right-to-Know Act Not regulated.

US. Rhode Island RTK Not regulated.

US. California Proposition 65 Not listed.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/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

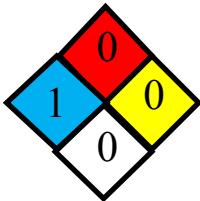
HMIS Ratings:

Health – 1

Flammability – 0

Reactivity – 0

NFPA Ratings:



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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 is set forth on the labeling and the SDS.

SDS preparation date: March 4, 2019

Replaces MSDS dated: September 12, 2018

Changes since last All sections have had major changes

Version: 3

revision:

