

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Semperfresh™
Product Code: 10187
Product Use: A liquid post-harvest treatment to protect and extend the storage and shelf life of fruit.
Product Restrictions: Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information
Supplier: 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, Flammable Liquid and Vapor,
 Category 3
 Eye Damage/Irritation, Category 2A
 Specific Target Organ Toxicity, Single
 Exposure, Category 3 - Respiratory

Hazard Symbols:



Signal Word:
 WARNING

Hazard Statements:

H226 Flammable Liquid and Vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Other Hazards:

Hazard(s) not otherwise classified (HNOC):

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.
 P264 Wash hands thoroughly after handling.
 P261 Avoid breathing mist/vapors/ or spray.
 P271 Use only outdoors or in a well-ventilated area.

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 CO₂, dry chemical, or foam to extinguish.
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337/313 If eye irritation persists: Get medical advice/attention.
 P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.

Storage Statements:

P403/235/233 Store in well-ventilated place. Keep cool. Keep container tightly closed.
 P235 Keep cool.
 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is regulated by FDA – not subject to 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Mixture

Chemical name
 Isopropyl Alcohol
 Ethanol

CAS #
 67-63-0
 64-17-5

Concentration (w/w %)
 20 -30 %
 1 - 5 %

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret.



4. FIRST AID MEASURES

General Advice:	Immediate medical attention is required. 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 contaminated clothing and footwear immediately unless stuck to the skin. Wash skin with plenty of soap and water. If symptoms persist call a physician.
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:	Wash out mouth with water. 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. Rinse mouth with water and afterwards drink plenty of water or milk.
If Inhaled:	Move person to fresh air. Do not use mouth-to-mouth if victim ingested or inhaled the substance. If person is not breathing, call 911 or an ambulance, and then give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Consult a physician.
Most important Symptoms / effects, acute and delayed	See Section 2.2, Label Elements and/or Section 11, Toxicological effects.
Indication of any immediate medical attention and special treatment needed:	Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Flammable. Use alcohol resistant foam, water spray, carbon dioxide, or dry chemical powder. Water spray may be used to keep fire exposed containers cool. Do not use high volume water jet.
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special Hazards Arising from the Chemical:	Flammable. In combustion emits toxic fumes. Forms explosive air-vapor mixture. Vapors may flow along surfaces to distant ignition sources and flask back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire. Burns with a clear, almost invisible flame.
Special protective equipment and precautions for firefighters:	Wear NIOSH/MSHA approved positive-pressure, self-contained breathing apparatus and full protective turn-out gear. Use water spray to cool fire exposed containers. Use caution in approaching 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.
Explosion Data	Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.
Hazardous combustion products:	No information available.

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 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 Clean-Up:	Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Use material like sand, silica gel, acid binder, universal binder, saw dust or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
Environmental Precautions:	Never return spills to original containers for re-use. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.



7. HANDLING & STORAGE

Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and tightly fitting safety goggles or face shield. Use non-sparking tools.

Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep container tightly closed when not in use. Keep away from sources of ignition. Prevent the buildup of electrostatic charge in the immediate area. Ensure lighting and electrical equipment is not a source of ignition. Keep out of reach of children and livestock. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components	Type	Value
Isopropyl alcohol (CAS# 67-63-0)	TWA	400 ppm 980 mg/m ³
Ethanol (CAS# 64-17-5)	TWA	1000 ppm 1900 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS# 64-17-5)	STEL	1000 ppm

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear tightly fitting safety goggles or face-shield. Eye wash station and washing facilities should be available.

Skin protection

Hand protection: Wear chemical resistant gloves.

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

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

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Viscous liquid	Vapor pressure:	Not available
Odor:	Not available	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	Not available
pH:	6.0	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:	24°C / 75°F	Viscosity:	Not available
Evaporation rate:	Not available	Explosive properties:	Not available
Flammability (solid, gas):	Not applicable	Oxidizing properties:	Not available



10. STABILITY & REACTIVITY

Reactivity hazards:	No data available
Possibility of Hazardous Reactions:	None under normal processing.
Chemical stability:	Generally stable even under fire exposure conditions and not water reactive.
Conditions to avoid:	Heat, hot surfaces, sources of ignition, flames.
Incompatible materials:	Strong oxidizing agents, strong acids.
Hazardous decomposition products:	In combustion, emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:	Eye, Skin contact, Inhalation, Ingestion.	
Information on likely routes of exposure		
Ingestion	Could cause problems related to excess alcohol and polysaccharide ingestion.	
Inhalation	May cause drowsiness.	
Skin contact	No information available.	
Eye contact	Causes serious eye irritation.	
Symptoms related to the physical chemical and toxicological characteristics:	Direct contact with eyes causes serious eye irritation.	
Information on toxicological effects		
Components	Species	Test Results
Isopropyl alcohol (CAS# 67-63-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	13900 mg/kg
<i>Inhalation</i>		
LC50	Rat	72600 mg/m ³ , 4 hour
<i>Oral</i>		
LD50	Rat	5840 mg/kg
Components	Species	Test Results
Ethanol (CAS# 64-17-5)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	124.7 mg/L, 4 hour
<i>Oral</i>		
LD50	Not available	
Skin corrosion/irritation:	No information available.	
Exposure minutes	Not available	
Erythema value	Not available	
Oedema value	Not available	
Serious eye damage/eye irritation:	Causes serious eye 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:	May cause drowsiness.	
Skin sensitization:	No information available	
Germ cell mutagenicity:	Not available	
Carcinogenicity:	See below	
IARC Monographs. Overall Evaluation of Carcinogenicity	Isopropyl alcohol (CAS# 67-63-0)	Group 3
Reproductive toxicity:	Contains a known or suspected reproductive toxin. Avoid repeated exposure.	
Target organ effects:		
STOT – single exposure	No information available.	
STOT – repeated exposure	Contains a known or suspected reproductive toxin. Avoid repeated exposure.	
Aspiration hazard:	No information available.	
Potential health effects:	May cause serious eye irritation. May cause drowsiness.	



12. ECOLOGICAL INFORMATION

Ecotoxicity	See below		Ecotoxicity
Ecotoxicological data	Species		Test Results
Components			
Isopropyl alcohol (CAS# 67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours
Crustacea	EC50	Water flea (Daphnia magna)	13299 mg/L, 48 hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1400 mg/L, 96 hours
		Fathead minnow (Pimephales promelas)	9640 mg/L flow-through 11130 mg/L static
Ethanol (CAS# 64-17-5)			
Crustacea	EC50	Water flea (Daphnia magna)	2 mg/L, 48 hours Static
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	9268 – 14221 mg/L, 48 hours
Fish	LC50	Oncorhynchus mykiss	12.0 – 16.0 mL/L, 96 hours Static
	LC50	Fathead minnow (Pimephales promelas)	100 mg/L Static 13400 – 15100 mg/L flow-through
Persistence/ degradability:	No information available.		
Bioaccumulative potential	Discharge into the environment must be avoided.		
Chemical Name		Log Pow	
Isopropyl alcohol (CAS# 67-63-0)		0.05	
Ethanol (CAS# 64-17-5)		-0.32	
Mobility in soil:	No information available.		
Other adverse effects:	No information available.		

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
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. INFORMACIÓN DE TRANSPORTE

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.			
U.S. Department of Transportation (DOT)	DOT	MEX	IMDG	IATA
UN number:	UN1139	UN1139	UN1139	UN1139
Proper shipping name:	Coating solution	Coating solution	Coating solution	Coating solution
Hazard class(es):	Class 3, flammable liquid	Class 3, flammable liquid	Class 3, flammable liquid	Class 3, flammable liquid
Packing group:	III	III	III	III

15. REGULATORY INFORMATION

15.1 INTERNATIONAL INVENTORIES

TSCA	---	United States Toxic Substances Control Act Section 8(b) Inventory
DSL	---	Canadian Domestic Substances List
EINECS/ELINCS	---	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	---	Japan Existing and New Chemical Substances
IECSC	---	China Inventory of Existing Chemical Substances
KECL	---	Korean Existing and Evaluated Chemical Substances
PICCS	---	Philippines Inventory of Chemicals and Chemical Substances
AICS	---	Australian Inventory of Chemical Substances
NZIoC	---	New Zealand Inventory of Chemicals



15.2 U.S. FEDERAL REGULATIONS

SARA 313 (TRI reporting)

Chemical name	SARA 313 – Threshold Values %	Weight-%
Isopropyl alcohol (CAS# 67-63-0)	1.0	20 – 30

15.3 PESTICIDE INFORMATION

Not applicable

15.4 U.S. STATE REGULATIONS

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

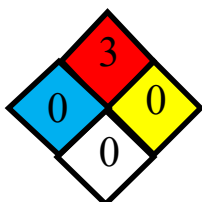
HMIS Ratings:

Health – 0

Flammability – 3

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: April 29, 2021
Changes since last revision: Section 11, correction

Replaces SDS dated: February 25, 2021
Version: 7

