

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Natural Shine® 505-OR
Product Code: 10337
Product Use: Organic Coating for Postharvest Application on Citrus, Mangoes, and other Fruits
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 hazards, not classified.
 Skin corrosion / irritation, Category 2
 Eye damage / irritation, Category 2A
 Sensitization, Skin, Category 1
 Environmental hazards, not classified.

Hazard Symbols:



Signal Word:

WARNING

Hazard Statements:

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 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.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves, clothing and eye protection.

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.
 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.

Storage:

Store away from incompatible materials.

Disposal:

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

Chemical Name	CAS #	Concentration (w/w %)
Stabilizer	Trade Secret	0.1 - 1 %*
Sodium Hydroxide	1310-73-2	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, physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.
If Inhaled:	If symptoms develop move person to fresh air. If symptoms persist, obtain medical attention.
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:	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
Most important Symptoms / effects, acute and Delayed:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 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.

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.
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.
General fire hazards:	No unusual fire or explosion hazards noted.
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 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).
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. 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.
Environmental precautions:	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 contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke.

Conditions for safe storage, including any incompatibilities: 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. 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
Sodium Hydroxide (CAS# 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium Hydroxide (CAS# 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium Hydroxide (CAS# 1310-73-2)	Ceiling	2 mg/m3

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 Impervious gloves. Confirm with reputable supplier first.

Other Use of protective clothing (long sleeve shirt and pants). As required by employer code.

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 Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Routinely wash work clothing and protective equipment to remove contaminants. 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:	Clear amber	Vapor pressure:	Not available
Odor:	Waxy, citrus	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	0.99 – 1.00
pH:	10.1 -10.5	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 flammable.	Viscosity:	1 -25
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:	Stable under recommended storage 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 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	Prolonged inhalation may be harmful.	
Skin contact:	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact:	Causes serious eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects		
Acute toxicity	Skin irritation. Eye irritation.	
Components	Species	Test Results
Stabilizer (CAS Trade Secret)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>5000 mg/kg, Sigma Aldrich
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	>5000 mg/kg, Sigma Aldrich
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
Skin corrosion/irritation:	Causes skin irritation.	
Serious eye damage/eye irritation:	Causes serious eye irritation.	
Respiratory sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	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	
Carcinogenicity:	See below	
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:	Prolonged inhalation may be harmful.	



12. ECOLOGICAL INFORMATION

Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
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 instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations:	Dispose of in accordance with local 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	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	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	
Classified Hazard Categories	Skin Corrosion or irritation Serious eye damage or eye irritation 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	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US - Illinois Chemical Safety Act: Listed substance	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US - Louisiana Spill Reporting: Listed substance	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US - Minnesota Haz Subs: Listed substance	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US - Texas Effects Screening Levels: Listed substance	Stabilizer (CAS Trade Secret)	Listed.
	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US. Massachusetts RTK - Substance List	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US. New Jersey Worker and Community Right-to-Know Act	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US. Pennsylvania Worker and Community Right-to-Know Law	Sodium Hydroxide (CAS 1310-73-2)	Listed.
US. Rhode Island RTK	Sodium Hydroxide (CAS 1310-73-2)	Listed.
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

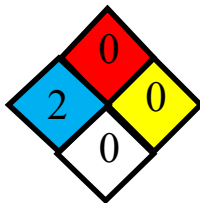
HMIS Ratings:

Health – 2

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: December 16, 2019 **Replaces SDS dated:** August 15, 2018

Version No. 4

Changes since last revision: Several GHS updates through-out SDS all sections.

