

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Shield-Brite<sup>®</sup> PAA 12.0  
**Product Code:** 10341  
**Product Use:** Controls Spoilage and Decay Causing Organisms in Fruit and Vegetable Processing Waters  
**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:**  
Oxidizing Liquid, Category 2  
Organic Peroxide, Type F  
Corrosive to Metals, Category 1  
Acute Oral, Category 4  
Acute Dermal, Category 4  
Acute Inhalation, Category 4  
Skin irritation, Category 1  
Eye irritation, Category 1  
Specific Target Organ Toxicity – single exposure, Category 3  
Aquatic Toxicity, Category 1

**Hazard Symbols:**



**Hazard Statements:**

DANGER  
H272 May intensify fire, oxidizer.  
H242 Heating may cause a fire.  
H290 May be corrosive to metals  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

**Precautionary Statements:**

**Prevention Statements:**

P210 Keep away from heat.  
P220 Keep / Store away from combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P234 Keep only in original container.  
P260 Do not breathe fume, gas, mist, vapours or spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.

**Response Statements:**

P370/378 In case of fire: Use water or other suitable extinguishing media.  
P390 Absorb spillage to prevent material damage.  
P391 Collect spillage.  
P301/312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P330 Rinse mouth.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatments see Section 4 First Aid Measures.  
P362/364 Take off contaminated clothing and wash it before reuse.  
P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301/330/331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.  
P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P363 Wash contaminated clothing before reuse.  
P310 Immediately call a POISON CENTER or doctor for medical advice.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage Statements:**

P411/235 Store at temperatures not exceeding 55°C (131°F).  
P410 Protect from sunlight.  
P420 Store away from other materials.  
P406 Store in corrosive resistant container with a resistant inner liner.  
P403/233 Store in well-ventilated place. Keep container tightly closed.  
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.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Hydrogen Dioxide	7722-84-1	18.5 %
Peroxyacetic Acid	79-21-0	12.0 %
Acetic Acid	64-19-7	20 %
Proprietary food grade ingredients		Balance

### 4. FIRST AID MEASURES

<b>General</b>	Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
<b>Advice:</b>	center or physician, or going for treatment.
<b>If on Skin:</b>	Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
<b>If in Eyes:</b>	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. Get medical advice/attention.
<b>If Swallowed:</b>	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.
<b>If Inhaled:</b>	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.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Not flammable. Use any means suitable for extinguishing surrounding fire. Oxidizing Agent may cause spontaneous ignition with oxidizing agent. Water spray may be used to keep fire exposed containers cool.
<b>Special Exposure Hazards:</b>	Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.
<b>Special Protective Equipment / Procedures for Firefighters:</b>	Wear self-contained breathing equipment.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Wear impermeable clothing, safety goggles or face shield, and chemical resistant gloves.
<b>Environmental Precautions:</b>	In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
<b>Containment / Clean-Up Methods:</b>	Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal. Unused product (concentrate) is classified as a (D002) by RCRA criteria.

### 7. HANDLING & STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.
<b>Storage:</b>	Store in a cool, dry area at temperatures not exceeding 55°C (131°F), and away from direct sunlight. Store in vented corrosive resistant container with a resistant inner liner. Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location away from combustible materials and reactive substances.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** Acetic Acid CAS# 64-19-7  
TWA 10 ppm (OSHA 8-hr PEL, NIOSH, ACGIH)  
TWA 25 mg/m<sup>3</sup> 8-hrs (OSHA, NIOSH)  
Hydrogen Peroxide CAS# 7722-84-1  
TWA 1 ppm (OSHA 8-hr PEL, NIOSH, ACGIH)  
TWA 1.4 mg/m<sup>3</sup> 8-hrs (OSHA, NIOSH)

**Engineering Controls:** Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

### Personal Protective



**Clothing:** Wear impermeable clothing and chemical resistant gloves when handling.

**Eye Protection:** Chemical goggles or face shield recommended. Eye fountain and washing facilities should be present at work area.

**Respiratory Protection:** Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Odor:</b>	Pungent	<b>Vapor pressure:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Vapor density: (air =1)</b>	Not available
<b>pH:</b>	1.56	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.11 g/cm <sup>3</sup> (9.29 lbs/gal) at 24°C
<b>Melting/Freezing point:</b>	-30°C(-22°F)	<b>Solubility:</b>	Complete
<b>Boiling point:</b>	N/A: product decomposes	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Flash point:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Decomposition temperature:</b>	Self-accelerating decomposition temperature > 55°
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	Not available

## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	None known
<b>Chemical stability:</b>	Stable at ambient conditions, with slow oxygen release.
<b>Conditions to avoid:</b>	Heat, direct sunlight, water, moisture, contact with combustible materials.
<b>Incompatible materials:</b>	Acids, bases, reducing agents organic materials, metals, salts of metals.
<b>Hazardous decomposition products:</b>	None known.



**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity:</b>	<b>Acute Oral:</b> LD <sub>50</sub> (estimate): rat 652 mg/kg (12% solution)	Based on Ingredients
	<b>Acute Dermal:</b> LD <sub>50</sub> (estimate): rabbit 1957 mg/kg(12% solution)	Based on Ingredients
	<b>Inhalation:</b> LC <sub>50</sub> (estimate): 1h.,rat 590 mg/kg (5% solution)	Based on Ingredients
<b>Skin corrosion/irritation:</b>	Causes severe skin burns. (>0.12% solution, irritating effect)	
<b>Eye damage/irritation:</b>	Causes serious eye burns and damage.	
<b>Respiratory/Skin sensitization:</b>	May cause respiratory track irritation.	
<b>Germ cell mutagenicity:</b>	Not available	
<b>Carcinogenicity:</b>	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.	
<b>Reproductive toxicity:</b>	Occasional workplace exposure is not expected to present a hazard.	
<b>Target organ effects:</b>	Harmful if swallowed.	
<b>Aspiration hazard:</b>	Material does not present an aspiration hazard.	
<b>Potential health effects:</b>	CORROSIVE: May cause severe skin burns and eye damage.	

**12. ECOLOGICAL INFORMATION**

<b>Toxicity:</b>	Toxic to simple celled aquatic organisms. Danger to the environment limited; due to product properties.
<b>Persistence/ degradability:</b>	Weak persistence of degradation products.
<b>Bioaccumulative potential:</b>	No bioaccumulation.
<b>Mobility in soil:</b>	Non-significant adsorption Soil degradation = 99% in 20 minutes.
<b>Other adverse effects:</b>	Toxic to fish, birds, bees and other pollinating insects on blooming crops or weeds.

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal methods:</b>	Recover or recycle if possible. 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.
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**14. TRANSPORT INFORMATION**

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
<b>UN number:</b>	UN 3109	Not applicable	Not applicable
<b>Proper shipping name:</b>	Organic Peroxide type F, liquid Peroxyacetic acid or peracetic acid (with not more than 26% hydrogen peroxide)	Not regulated	Not regulated
<b>Hazard class(es):</b>	5.2(8)	Not applicable	Not applicable
<b>Packing group:</b>	II	Not applicable	Not applicable
<b>Marine Pollutant:</b>	No		
<b>Special precautions:</b>	Shipping Container: UN Certified vented polyethylene.		



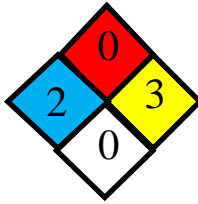
**15. REGULATORY INFORMATION**

- SARA 313:** Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
- TSCA:** All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
- WHMIS:** This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

**16. OTHER INFORMATION**

**HMIS Ratings:** Health – 3      Flammability – 0      Reactivity – 2

**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:** May 26, 2015  
**Changes since last revision:** New format to SDS

**Replaces MSDS dated:** January 11, 2013

