

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Shield-Brite[®] PAA 5.6 **EPA Reg. # 63838-1-64864**
Product Code: 10523
Product Restrictions: For Agriculture Use Only
Product Use: Antimicrobial Solution
Chemical Family: Oxidizer
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 (PROPHARMA/PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required for safety data sheets of non-pesticide chemicals. Please see Section 15 for FIFRA labeling information.

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 of the Product AS SOLD:

Skin Corrosion, Category 1
Serious Eye Damage, Category 1
Oxidizing Liquids, Category 2
Corrosive to Metals, Category 1
Organic Peroxides, Type G
Acute Toxicity, Oral Category 4
Acute Toxicity, Dermal Category 5
Hazardous to the Aquatic Environment,
Acute Toxicity Category 2

Hazard Symbols:



Signal Word:

DANGER

Hazard Statements:

Causes severe skin burns and eye damage
May intensify fire, oxidizer
May be corrosive to metals
Harmful if swallowed
May be harmful in contact with skin
Toxic to aquatic life

Hazard(s) not otherwise classified (HNOC):

Precautionary Statements:

Prevention

Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands thoroughly after handling.
Keep away from heat/sparks/open flames/hot surfaces-No smoking.
Keep/Store away from clothing/combustible materials.
Do not eat, drink or smoke when using this product.
Keep only in original container.

Take any precaution to avoid mixing with combustibles.

Response:

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. For specific treatment see Section 4 First Aid.

Wash contaminated clothing before reuse.

In case of fire: Use water for extinction.

Absorb spillage to prevent material damage.

Storage

Store locked up.
Store in a corrosive resistant container with a resistant inner liner.

Disposal

Dispose of contents/container in accordance with local regulations.

No other hazards classified.



3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Hydrogen peroxide	7722-84-1	26.5 - 27.3 %
Acetic acid	64-19-7	3.0 - 8.0 %
Peroxyacetic acid	79-21-0	5.0 - 5.9 %

4. FIRST AID MEASURES

Inhalation:	Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. If direct contact during rescue breathing poses a threat to the first aid provider, "Avoid mouth-to-mouth contact by using a barrier device."
Skin Contact:	Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower with a flushing duration of 30 minutes. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use.
Eye Contact:	Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. Immediately call a POISON CENTER/doctor.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Causes severe skin burns and eye damage, burning of the mouth, throat, and esophagus.
Most Important Symptoms and Effects, both Acute and Delayed:	
Indication of any Immediate Medical Attention and Special Treatment Needed:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use water spray, powder, foam, carbon dioxide.
Specific hazards arising from the substance or mixture:	Non-combustible. May give off irritating or toxic fumes (or gases) in a fire.
Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012):	Non flammable
Hazardous Combustion Products:	May cause fire and explosions when in contact with incompatible materials.
Special protective equipment and precautions for firefighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with combustible cartridges to include acid gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Methods and materials for containment and cleaning up:	SMALL SPILLS (less than 1 gallon): Neutralize with soda ash or cover with dry earth, sand or other non-combustible material, place into loosely covered plastic containers for later disposal. If neutralized, material can be diluted into drain. LARGE SPILL: Restrict access to area until completion of clean up. Prevent liquid from entering sewers or waterways. Stop or reduce leak if safe to do so. Dike with inert material (sand, earth, etc.). Collect into plastic containers for disposal. Ensure adequate decontamination of tools and equipment following clean up.
Special spills response procedures:	Collect spills in plastic containers only. Prevent from entering sewers, waterways, or low areas.



7. HANDLING & STORAGE

Precautions for safe handling:	Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.
Conditions for safe storage:	Store in a cool, dry, well ventilated place away from direct sunlight. Keep container closed when not in use.
Incompatible materials:	Avoid strong reducing agents, soft metals, heat and bases (unless product has been diluted to less than 1000ppm, then bases may be used to gradually adjust to a pH of less than 9).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:		OSHA PEL		ACGIH TLV	
Chemical Name	CAS No.	TWA	STEL/CEILING	TWA	STEL
Acetic acid	64-19-7	10 ppm	15 ppm/40 ppm (CalOSHA)	10 ppm	15 ppm
Hydrogen peroxide	7722-84-1	1 ppm	1 ppm/N/A (CalOSHA)	1 ppm	N/A
Peracetic acid	79-21-1	N/A	N/A	N/A	0.4 ppm

Ventilation and engineering measures: Forced air, local exhaust, or open air is adequate.

Respiratory protection: In case of confined spaces or high levels encountered in the air, wear self-contained breathing apparatus with combination cartridges that includes acid gases.

Skin protection: Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before re-use.

Eye/face protection: Wear chemical goggles; also wear a face shield if splashing hazard exists.

Other protective equipment: Eye wash facility and emergency shower should be in close proximity.

General hygiene conditions: Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear colorless liquid	Upper/Lower flammability limits:	No information available
Odor:	Vinegar odor	Vapor pressure (mm Hg):	22
Odor threshold:	Not available	Vapor density: (air =1)	No information available
pH:	1.5-1.9 (1:10)	Specific Gravity: (H₂O = 1)	1.12 g/mL
Melting/Freezing point:	No information available	Solubility in water:	Complete
Pour Point:	No information available	Partition coefficient (n-octanol-water):	No information available
Initial boiling point and boiling range:	No information available	Auto-ignition temperature:	>518° F / >270° C
Flash point:	>200° F / >93° C	Decomposition temperature:	No information available
Evaporation rate:	No information available	Viscosity:	5-15 cSt at 20°C / 68°F
Flammability (solid, gas):	Non flammable	Volatiles (% by weight):	>99
		Volatile Organic Compounds (VOC's):	No information available

10. STABILITY & REACTIVITY

Reactivity hazards:	Reactive with bases, metals, reducing agents and combustible materials.
Possibility of hazardous reactions:	May react with incompatible materials
Chemical stability:	Stable for up to 1 year when stored under normal conditions.
Conditions to avoid:	Incompatible materials and high temperatures.
Incompatible materials:	Reactive with bases, metals, reducing agents and combustible materials.
Hazardous decomposition products:	Oxygen which supports combustion.



11. TOXICOLOGICAL INFORMATION

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Inhalation: Yes

Skin and Eye Yes

corrosion / irritation:

Ingestion: Yes

Skin Absorption: No

Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: Inhalation of the mist may produce severe irritation of respiratory tract, characterized by coughing, choking, shortness of breath, headaches, dizziness, nausea, weakness and/or drowsiness.

Ingestion: Corrosive! Swallowing causes severe burns of mouth, throat, and stomach. Severe scarring of tissue, corrosion, permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.

Skin: Corrosive! Contact with skin causes irritation or severe burns and scarring with greater exposures.

Eye: Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Potential Chronic Health Effects:

Mutagenicity: No known mutagenic effects

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects: No known reproductive effects.

Sensitization to Not expected to cause sensitization.

material:

Specific target organ No information available.

effects:

Medical conditions No information available.

aggravated by

overexposure:

Toxicological data: The calculated ATE values for this mixture are:

ATE oral = 668 mg/kg

ATE dermal = 4808 mg/kg

ATE inhalation = >20 mg/L or >20,000 ppm

12. ECOLOGICAL INFORMATION

Ecotoxicity May be harmful to aquatic life.

Persistence/ degradability: Not expected to persist. Expected to readily biodegrade.

Bioaccumulative potential Not expected to bio-accumulate.

Mobility in soil: No information available.

13. DISPOSAL CONSIDERATIONS

Handling for disposal: Do not contaminate water, food, or feed by storage and/or disposal. When handling, refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.

Disposal methods: Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA: If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of: Corrosivity D002.



14. TRANSPORT INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications.

US 49 CFR/DOT/IATA/IMDG Information:

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
UN number:	3098	3098	3098
UN Proper shipping name:	Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized)	Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized)	Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized)
Transportation Hazard class(es):	5.1(8)	5.1(8)	5.1(8)
Packing group:	II	II	II
Environmental hazards:	No hazards identified		

15. REGULATORY INFORMATION

FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual

Hazard Data

Signal Word	DANGER
Acute Toxicity, oral	Category III: Harmful if swallowed
Acute Toxicity, dermal	Category III: Harmful if absorbed through skin
Acute Toxicity, inhalation	Category II: May be fatal if inhaled
Skin irritation/corrosion	Category I: Corrosive. Causes skin burns
Serious eye damage	Category I: Corrosive, Causes irreversible eye damage
Sensitization	Not Classified (NC)
Environmental (aquatic) toxicity	This pesticide is toxic to fish and other aquatic organisms.

US Federal Information:

TSCA information:	All components are listed on the TSCA inventory.
US CERCLA Reportable quantity (Hazardous substance RQ):	Acetic acid has a RQ of approximately 70000 lbs. of as is chemical
US EPCRA Reportable quantity (Extremely hazardous substance RQ):	Peracetic acid has a RQ of approximately 8900 lbs. of as is chemical.
Clean Air Act Section 112(r) Threshold Quantity (TQ):	Peracetic acid has a TQ of approximately 178000 lbs. of as is chemical.
SARA Title III Hazard Categories:	Reactivity Hazard, Acute Health Hazard

International Information:

WHMIS: Class C: Oxidizing material. Class E: Corrosive material.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.

16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 1	Stability 1	Special Hazards OX, COR
HMIS	Health Hazards 3	Flammability 1	Physical Hazard 1	Personal Protection C
NFPA/HMIS Ratings Legend				
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0				
Special hazards: OX = Oxidizer; COR = Corrosive				
Personal Protection = C (safety glasses, gloves, protective apron)				

Legend:

SARA:	The Superfund Amendments and Reauthorization Act
RCRA:	Resource Conservation and Recovery Act



TSCA: Toxic Substances Control Act
CFR: Code of Federal Regulations
DOT: Department of Transportation
ATE: Acute Toxicity Estimate

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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:	September 5, 2017	Replaces MSDS dated:	May 23, 2017
Version No.	2		
Changes since last revision:	Removed Product AT USE DILUTION for all sections. Section 3, range of Hydrogen Peroxide changed. Section 5, Special protective equipment and precautions for firefighters. Section 8, Respiratory protection.		

