

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:

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

Precautionary Statements:

Prevention

P210 Keep away from heat/hot surfaces/sparks/open flames/and other ignition sources. No smoking.
 P220 Keep and Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.
 P234 Keep only in original container.
 P260 Do not breathe mists, spray or vapors.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED:

P301/330/331 Rinse mouth. Do NOT induce vomiting.
 P301/312 Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair):

P303/361/363 Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P363 Wash contaminated clothing before reuse.

IF INHALED:

P304/340 Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor.
 P321 Specific treatments see First Aid Measures, Section 4 of SDS.

IF IN EYES:

P305/351/338 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.

OTHER:

P370/378 In case of fire: Use water spray, powder, foam, carbon dioxide for extinction.
 P390 Absorb spillage to prevent material damage.

Storage

P405 Store locked up.

Hazard Symbols:



Signal Word:

DANGER

Hazard Statements:

H290 May be corrosive to metals.
 H272 May intensify fire, oxidizer.
 H302 Harmful if swallowed.
 H313 May be harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H401 Toxic to aquatic life



P406 Store in a corrosive resistant container with a resistant inner liner.

Disposal
P501 Dispose of contents/container in accordance with local regulations.

Hazard(s) not otherwise classified (HNOC): 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	25.0 - 27.4 %
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.
Most Important Symptoms and Effects, both Acute and Delayed:	Causes severe skin burns and eye damage, burning of the mouth, throat, and esophagus.
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.

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. If material is not neutralized, absorb spillage to prevent material damage.



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. Absorb spillage to prevent material damage.

Special spills response procedures: Collect spills in plastic containers only. Prevent from entering sewers, waterways, or low areas. Absorb spillage to prevent material damage.

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. Wash hands thoroughly after handling product. Do not eat, drink, or smoke when using this product. Do not breathe mist, spray or vapors. If clothing is contaminated with product, wash contaminated clothing before reuse. Do not contaminate water, food, or feed by storage or disposal. Avoid release into the environment.

Conditions for safe storage:

Store in a corrosion resistant container with a resistant inner liner. Store in a cool, dry, well ventilated place and away from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Keep only in original packaging. Keep container closed when not in use. Store locked up.

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:

Chemical Name	CAS No.	TWA	OSHA PEL		ACGIH TLV	
			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
Peroxyacetic 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.

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
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 corrosion / irritation:	Yes
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 material:	Not expected to cause sensitization.
Specific target organ effects:	No information available.
Medical conditions aggravated by overexposure:	No information available.
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	Toxic 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

Peracetic acid has a TQ of approximately 178000 lbs. of as is chemical.

Quantity (TQ):

SARA Title III Hazard Categories:

Reactivity Hazard, Acute Health Hazard

California Prop. 65

This product doesn't contain any chemical listed.

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:	February 14, 2019	Replaces MSDS dated:	September 5, 2017
Version No.	3		
Changes since last revision:	Section 2 – layout, Section 5 – cartridges, Section 7-Handling and Storage, Section 8 – Respiratory protection, Section 12 – Toxic		

