

December 01, 2022

Safety Data Sheet

Section 1: Product and Company Identification

Product Name SHIELD, Antimicrobial HVAC Air Filter Treatment

SDS No. PS2H

Manufacturer/Distributor PermaSafe Surface & Air Sanitation System, LLC
6855 Lyons Technology Circle, Suite 18
Coconut Creek, FL 33073

Phone Numbers (866) 372-9622
Medical Emergency (800) 535-5053

Section 2: Hazards Identification

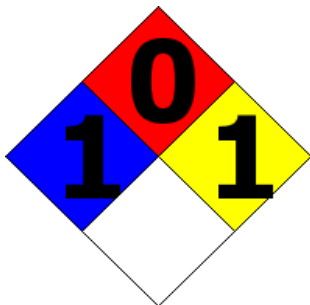
Classification of the Substance or Mixture: Not classified for physical or health hazards under GHS.

Hazard Statements: N/A

Precautionary Statements: If medical advice is needed, have product container or label at hand. Read label before use.

Other Non-GHS Classification:

WHMIS
NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	1
Personal Protection	B

HMIS RATINGS (0-4)

Section 3: Composition / Information on Ingredients

Ingredients	CAS Number	Wt %
3-(Trihydroxysilyl) propyldimenhyloctadecyl ammonium chloride	27668-52-6	0.50
Inert Ingredients		99.50

At these concentrations none of the ingredients are known to pose any hazards to human health.

Section 4: First Aid Measures

Inhalation

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

Skin Contact

Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

Eye Contact

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lense(s) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation. headache. nausea. shortness of breath.

Indication of any immediate medical attention and special treatment needed

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

Section 5: Fire Fighting Measures

Extinguishing Media:

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol- resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eye-wear, gloves and clothing. Refer to Section 8. When needed, use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Ensure that air-handling systems are operational

Environmental precautions: Should not be released into environment. Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up: Wear protective eye-wear, gloves and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

Reference to other sections: As needed.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities: Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

Section 8: Exposure Control/ Personal Protection



Control Parameters

No applicable occupational exposure limits.

Respiratory protection

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment..

Protection of skin

Select glove material resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves as needed after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye protection

Safety glasses or goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

General hygienic measures

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

Section 9: Physical and Chemical Properties

Appearance:	Clear, Colorless liquid	Odor:	Mild
Physical State:	Liquid	pH:	Aprox. 5.0
Boiling Point (°F):	Above 210F	Solubility in Water:	100%
Freezing Point (°F):	Not Determined	Vapor Pressure (mm Hg):	Not Available
Volatile Organic Compounds (VOC):	None	Evaporation Rate:	Not Determined
Specific Gravity:	1.003 @ 68°F (20°C)	Density (lb/gal):	Not Determined

Section 10: Stability and Reactivity

Conditions to avoid: Incompatible materials. Do not mix with cleaners, do not freeze, and avoid heat.

Chemical Stability: The product is stable.

Hazardous Polymerization: Will not occur.

Incompatibility with other Materials: Sodium Oxidizers

Hazardous Decomposition Products: N/A

Section 11: Toxicological Information

Acute Toxicity: No additional information.	
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	No additional information.
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

EPA TOXICITY RATING – IV This is the lowest category on the scale and is designed for substances that are the least hazardous.

Section 12: Ecological Information

Environmental Hazards: No data available.

Environmental Fate: No data available.

Section 13: Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

Section 14: Transport Information

Shipping Information: Not regulated by DOT, IMO/IMDG and IATA/ICAO for ground, air or ocean shipments.

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA: All components appear in TSCA Inventory

OSHA: Refer to Section 8 for exposure limits.

CERCLA SARA Hazard Category:

Section 311 and 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None

Section 313: This product contains following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None.

State regulations: State Right to Know information is not provided. **California prop. 65 (no significant risk level):** None

International Regulations:

Canadian WHMIS: Not controlled

Canadian Environmental Protection Act (CEPA): Additional information available upon request.

EU Regulations: Additional information available upon request.

EPA/FIFRA: Registration number: 82972-1

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Section 16: Other Information

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of PermaSafe Surface & Air Sanitation System LLC. The Data on this sheet related only to the specific material designed herein. PermaSafe Surface & Air Sanitation System, LLC assumes no legal responsibility for the use or reliance on this data.

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Revision Date:	0
Revision Note:	0

End of SDS