

August 11, 2020

**Step 1**

**Section 1: Product and Company Identification**

<b>Product Name</b>	Step 1	Aqueous Oxidant												
<b>SDS No.</b>	TR0082020	<table border="1"> <tr><td>H</td><td>0</td><td></td></tr> <tr><td>F</td><td>0</td><td></td></tr> <tr><td>R</td><td>0</td><td></td></tr> <tr><td>PE</td><td>--</td><td></td></tr> </table>	H	0		F	0		R	0		PE	--	
H	0													
F	0													
R	0													
PE	--													
<b>Manufacturer/Distributor</b>	PermaSafe Protective Coatings 4701 W. Augusta Blvd. Chicago, IL 60651													
<b>Phone Number</b>	773-626-8888													
<b>Medical Emergency</b>	(800) 535-5053													

**Section 2: Hazards Identification**

**2.1 GHS Classification:** This material is not considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

**Remarks** For full text of Hazard- and EU Hazard-statements: see SECTION 16.

**Emergency Overview:** Colorless liquid with mild fresh odor. Avoid contact with eyes. Keep out of reach of children.

<b>HMIS Rating: PPE:</b> 0	<b>Health:</b> 0	<b>Flammability:</b> 0	<b>Reactivity:</b> 0
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**Emergency Overview:** Colorless liquid with mild fresh odor. Avoid contact with eyes. Keep out of reach of children.

**GHS Classification:** This material is not considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

**2.2 Potential Health Effects**

**Eye Contact:** Eye contact may cause mild eye irritation with discomfort.

**Skin Contact:** Does NOT cause skin irritation and the product is NOT skin sensitizer.

**Inhalation:** Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors and allow adequate time for the vapors to disperse before re-entering the restricted area.

**Ingestion:** Non-Toxic **Carcinogenicity Information:** IARC, NTP, OSHA, and ACGIH list none of the components present in this material at concentrations equal to or greater than 0.1% as carcinogens.

**Hazard statements:** Eye contact may cause mild eye irritation with discomfort.

**Precautionary statements**

**Precautionary statements – prevention:** P234 Keep only in original container, or properly labeled second container

**Precautionary statements – response**  
P390 Absorb spillage to prevent waste

**2.3 Labeling elements:** None

### Section 3: Composition / Information on Ingredients

Ingredients	CAS Number	Wt %
Oxychlorine Compounds	Mixture	0.200
n-Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	0.125
n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	0.125
Inert Ingredients	Mixture	99.55

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

### Section 4: First Aid Measures

#### Inhalation

Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

#### Skin Contact

Does NOT cause skin irritation.

#### Eye Contact

In case of contact, flush eyes with plenty of water.

#### Ingestion

Non-toxic. Give a glass of water.

### Section 5: Fire Fighting Measures

**Flammable Properties: Flash Point:** Not Available (Non Flammable)

**Flammable Limits: Lower Flammable Limit:** Not Established

**Burn Rate:** Unknown

**Upper Flammable Limit:** Not Established

**Flammability Classification:** Non-Flammable liquid **Auto ignition Temperature:** Not Established

**Hazardous Combustion Products:** Thermal or other decomposition may yield chlorine dioxide or chlorine.

**Extinguishing Media:** N/A (Non-Flammable liquid) **Additional Considerations:** None

**FIRE FIGHTING INSTRUCTIONS:** Non-Flammable liquid

**NFPA Rating:** Health: 0 Flammability: 0 Reactivity: 0 PPE: None

### Section 6: Accidental Release Measures

#### Spill Clean Up

No special cleanup measures are required for the consumer product. To avoid the possibility of "bleaching" the spill should be absorbed with paper towels, and the area rinsed with clean water.

#### Accidental Release Measures

SDS No: TRO062018

Spills are slippery and should be cleaned up promptly.

## Section 7: Handling and Storage

**Handling:** Keep away from heat and strong acids. Do not ingest. Keep container closed. Use only with adequate ventilation.

**Storage:** Keep container tightly closed and sealed until ready for use. Keep container in a well-ventilated place. Do not store above 120°F or near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Do not transfer contents to bottles or other unlabeled containers. Do not reuse empty containers. Keep out of reach of children.

**Incompatible materials:** Strong acids

**Special Packaging Materials:** None

## Section 8: Exposure Control/ Personal Protection

**Engineering Controls:** Use in adequately ventilated areas.

**Personal Protective Equipment:**

**Eye/Face Protection:** Not required for consumer product.

**Skin Protection:** Not required for consumer product.

**Respirators:** None required for normal use. If consumer product accidentally contacts strong acids in restricted ventilation area, Avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

**Exposure Limits:**

**Oxychlorine Compounds: n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride:**

PEL (OSHA): Not available	PEL (OSHA):	Not available
TLV (ACGIH): Not available	TLV (ACGIH):	Not available

**n-Alkyl Dimethyl Benzyl Ammonium Chloride:**

PEL (OSHA): Not available
TLV (ACGIH): Not available

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Colorless liquid	<b>Odor:</b>	Mild-Fresh
<b>Physical State:</b>	Liquid	<b>pH:</b>	9.5
<b>Boiling Point (°F):</b>	212	<b>Solubility in Water:</b>	100%
<b>Freezing Point (°F):</b>	32	<b>Vapor Pressure (mm Hg):</b>	Not Available
<b>Volatile Organic Compounds (VOC):</b>	None	<b>Evaporation Rate:</b>	Less than Ether
<b>Specific Gravity:</b>	1.003 @ 68°F (20°C)	<b>Density (lb/gal):</b>	8.40 @ 68°F (20°C)

## Section 10: Stability and Reactivity

**Chemical Stability:** The product is stable.

**Incompatibility with other Materials:** Strong acids

**Conditions to avoid:** Contact with strong acids

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Thermal or other decomposition may yield chlorine dioxide or chlorine.

## Section 11: Toxicological Information

**TOXICITY TESTING - ACUTE Inhalation** - Studies with Wistar Albino rats exposed to a respirable aerosol made from a solution of Step 1 at a level of 2.08 mg/l for four hours resulted in no deaths and no abnormal necropsy observations. **Eye Contact** - Studies with New Zealand white rabbits showed this product is a very mild ocular irritant; mild conjunctival irritation was observed, but cleared within 24 hours. **Skin Contact** - Study of dermal toxicity in New Zealand white rabbits showed the product to be non-toxic: Dermal LD50 > 5,000 mg/kg of body weight; Study of dermal irritation in New Zealand white rabbits showed the product is not a dermal irritant. In Dermal Sensitization studies, Step 1 was determined not to be a sensitizer. **Swallowing** - Acute oral toxicity in albino rats: Non-toxic LD50 > 5,000 mg/kg of body weight.

**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:** Not data available.

**Environmental Fate:** Not 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

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Packaging Group:** N/A

**Air Shipment:**

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Shipping by Water:**

**Vessel (IMO/IMDG)**

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Environmental Hazards Water:** N/A

## 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: Information not available.

**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.

## Section 16: Other Information

### HMIS Rating:

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

**PPE:** None

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

End of SDS

29CFR1910/1200 and GHS Rev. 4

**SECTION 1: Identification of the substance/mixture and of the supplier**

**Product Name: STEP 2 Antimicrobial Surface Protectant RTU**

**Manufacturer/Supplier Trade Name: PermaSafe Protective Coatings**

**Manufacturer/Supplier Article Number: #PPC2008**

**Recommended uses of the product and uses restrictions on use:**

Provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae.

**Manufacturer / Distributor Details:**

PermaSafe Protective Coatings

4701 W. Augusta Blvd.

Chicago, IL 60651

773-626-8888

**Emergency Telephone Number:**

Infotrac: 800-535-5053

**SECTION 2: Hazards identification**

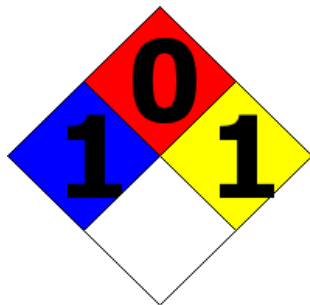
**Classification of the Substance or Mixture:** Not classified for physical or health hazards under GHS.

**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**

CAS#	Ingredients:	%
CAS 27668-52-6	3-(Trihydroxysilyl) propyldimethyloctadecyl ammonium chloride	<1 %
Percentages are by weight		

**Safety Data Sheet**  
29CFR1910/1200 and GHS Rev. 4

**SECTION 4: First aid measures**

**Description of first aid measures:**

**After 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.

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

**After 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.

**After swallowing:** 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 : Firefighting 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.

**Safety Data Sheet**  
29CFR1910/1200 and GHS Rev. 4

**SECTION 8 : Exposure controls/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**

<b>Appearance (physical)</b>	Clear, colorless liquid	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined Not determined
<b>Odor:</b>	Mild	<b>Vapor pressure:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH-value:</b>	Approx. 5.0	<b>Relative density:</b>	1.003
<b>Melting/Freezing point:</b>	Not determined	<b>Solubility's:</b>	Material is water soluble.
<b>Boiling point/Boiling range:</b>	Above 210F	<b>Partition coefficient (n- octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gaseous)</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density:</b>	Not determined		



**Safety Data Sheet**  
29CFR1910/1200 and GHS Rev. 4

**SECTION 10: Stability and reactivity**

**Reactivity:** Non-reactive under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Possible hazardous reactions:** None under normal processing.

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

**Incompatible 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.

<b>Sensitization:</b>	No additional information.
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<b>Single Target Organ (STOT):</b>	No additional information.
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<b>Numerical Measures:</b>	No additional information.
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<b>Carcinogenicity:</b>	No additional information.
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<b>Mutagenicity:</b>	No additional information.
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<b>Reproductive Toxicity:</b>	No additional information.
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**SECTION 12: Ecological information**

**Eco toxicity Persistence and degradability:** n/a

**Bio-accumulative potential:** n/a

**Mobility in soil:** n/a

**Other adverse effects:** n/a

**SECTION 13: Disposal considerations**

**Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed of with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

**SECTION 14: Transport information**

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Packaging Group:** N/A

**Air Shipment:**

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Shipping by Water:**

**Vessel (IMO/IMDG)**

**Proper Shipping Name:** Cleaning Compound N.O.S., Non Regulated

**Hazard Class/Division:** None

**UN/NA Number:** N/A

**Environmental Hazards Water:** N/A

**Safety Data Sheet**  
29CFR 1910/1200 and GHS Rev. 4

**SECTION 15: Regulatory information**

**United States (USA) SARA Section 311/312 (Specific toxic chemical listings):** None of the ingredients is listed

**SARA Section 313 (Specific toxic chemical listings):** None of the ingredients is listed

**RCRA (hazardous waste code):** None of the ingredients is listed

**TSCA (Toxic Substances Control Act):** All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** N/A

**Proposition 65 (California):**

**Chemicals known to cause cancer:** None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed

**Chemicals known to cause developmental toxicity:** None of the ingredients is listed

**Canada:**

**Canadian Domestic Substances List (DSL):** All ingredients are listed.

**Canadian NPRI ingredient Disclosure list (limit 0.1%):** None of the ingredients is listed

**Canadian NPRI Ingredient Disclosure list (limit 1%):** None of the ingredients is listed

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**Effective Date:** 10-24-2017

**Last Updated:** 08-11-2020