

Safety Data Sheet

PRODUCT: PreventX 24/7

SDS No: PX247

SECTION 1: GENERAL INFORMATION

| | | |
|---|-------------------------------------|------------------|
| COMPANY NAME JennsCo LLC | Telephone | 615-496-7313 |
| Address 1047 Luxborough Drive | In case of emergency call chemtrec: | 1-800-424-9300 |
| City, State, Zip Hendersonville, TN 37075 | Outside of U.S.A.: | 001-703-527-3887 |
| | Date: | 03-01-2020 |

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with 29 CFR 1910.1200 (OSHA HCS/GHS).

Signal Word: **Warning**



GHS - Classification

Eye Damage/Irritation (Category 2B)

Hazard Statement(s)

H320 Causes eye irritation

Precautionary Statement(s)

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/eye protection/protective clothing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for 15 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical attention
P501 Dispose of contents in container in accordance with local/state/federal/international regulations.

SECTION 3 : COMPOSITION/ INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENT | CAS# | PERCENTAGE |
|---|------|------------|
| 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride | none | 0.67% |

EPA REG. NUMBER 83129-1

SPECIFIC CHEMICAL NAME(S) AND CAS NUMBER(S) MAY BE A TRADE SECRET AS ALLOWED BY 29 CFR 1910.1200

SECTION 4 : FIRST AID MEASURES

EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING EYELIDS. GET MEDICAL ATTENTION.
SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
INGESTION: INDUCE VOMITING BY GIVING 2 GLASSES OF WATER AND PLACE FINGER DOWN THROAT. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR.

SECTION 5 : FIRE FIGHTING MEASURES

FLASH POINT: >200F
EXTINGUISHING METHOD: USE WATER, CARBON DIOXIDE, DRY CHEMICAL OR FOAM.
SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE CLOTHING.
UNUSUAL FIRE FIGHTING PROCEDURES: NONE KNOWN.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Keep people away from and upwind of spill/leak.
ENVIRONMENTAL PRECAUTIONS: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Advise water authority if spillage has entered water course or drainage system.
METHODS FOR CLEAN UP: Use mechanical handling equipment. Soak up with inert absorbent material(e.g. sand, silica gel, acid binder, universal binder, sawdust)
SPILL: VENTILATE AREA, PERSONS PERFORMING CLEAN-UP SHOULD WEAR ADEQUATE PROTECTION EQUIPMENT. CONTAIN MATERIAL BY DIKING THE AREA AROUND THE SPILL. IF THE PRODUCT IS IN A SOLID FORM, SHOVEL DIRECTLY INTO RECOVERY DRUMS. IF THE PRODUCT IS A LIQUID, IT SHOULD BE PICKED UP USING A SUITABLE ABSORBANT MATERIAL, THEN SHOVELED TO RECOVERY DRUMS. IF THE MATERIAL IS RELEASED INTO THE ENVIRONMENT, THE USER SHOULD DETERMINE WHETHER THE SPILL SHOULD BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AUTHORITIES.

SECTION 7 : HANDLING AND STORAGE

HANDLING AND STORAGE: MATERIAL SHOULD BE STORED IN ITS OWN CONTAINER AND SHOULD ALWAYS BE KEPT COVERED WHEN NOT IN USE. ALL CONTAINERS SHOULD BE RINSED THOROUGHLY 3 TIMES PRIOR TO DISPOSAL

SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION

ROUTES OF EXPOSURE: EYES, SKIN, INGESTION, INHALATION

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SYMPTOMS OR ACUTE HEALTH HAZARDS

EYES: CAUSES EYE IRRITATION.

SKIN: MAY CAUSE IRRITATION.

INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION.

INHALATION: MAY CAUSE IRRITATION OF NOSE, THROAT AND UPPER RESPIRATORY TRACT.

RESPIRATORY PROTECTION: IF NEEDED, USE A NIOSH APPROVED RESPIRATOR.

VENTILATION: USE SUFFICIENT MECHANICAL(GENERAL)OR LOCAL EXHAUST.

PROTECTIVE EQUIPMENT: GLOVES, APRON, GOGGLES

WORK/ HYGIENIC PRACTICES: AS WITH ALL INDUSTRIAL CHEMICALS, CARE SHOULD BE TAKEN TO AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. HANDS AND UNPROTECTED SKIN SHOULD BE THOROUGHLY WASHED AND CONTAMINATED CLOTHING SHOULD BE CHANGED PRIOR TO ANY DIRECT PERSONAL CONTACT. ALL EXPOSED CLOTHING SHOULD BE LAUNDERED PER NORMAL CARE INSTRUCTIONS BEFORE REUSE

EXPOSURE LIMITS

LIMITS

Octadecylaminodimethyltrimethoxysilylpropylammonium chloride

N.D.

EPA REG. NUMBER 83129-1

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------|------------------------|----------------------------|---------|
| PH: | 4.0-6.0 AS IS | Evaporation Rate: | NO DATA |
| SOLUBILITY: | SOLUBLE IN WATER | Vapor Pressure: | NO DATA |
| SPECIFIC GRAVITY: | 0.975-1.025 | Vapor Density: | NO DATA |
| APPEARANCE: | CLEAR COLORLESS LIQUID | Auto Ignition Temperature: | NA |
| Bod: | NO DATA | LEL: | NA |
| Cod: | NO DATA | UEL: | NA |
| Odor: | MILD | VOC: | NO DATA |
| Odor Threshold: | NO DATA | FlashPoint: | >200F |
| MeltingPoint: | NO DATA | BoilingPoint: | NO DATA |

SECTION 10 : STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

DECOMPOSITION PRODUCTS: CARBON OXIDES

CONDITIONS AND MATERIALS TO AVOID: STRONG OXIDIZING AGENTS

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: NO DATA

Chronic Toxicity: NO DATA

Carcinogenicity: NONE

Target Organ Effects: NO DATA

This product has not yet been tested. The information is derived from the properties of the individual components.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: NO DATA

Persistence Degradability: NO DATA

Bioaccumulation: NO DATA

Mobility: NO DATA

This product has not yet been tested. The information is derived from the properties of the individual components.

SECTION 13 : DISPOSAL CONSIDERATIONS

Disposal of this product should be made in accordance with federal state and local regulations.

SECTION 14 : TRANSPORT INFORMATION

TRANSPORTATION: NOT REGULATED BY D.O.T.

SECTION 15 : REGULATORY DATA

TITLE III-SARA: THE FOLLOWING DATA IS BEING SUPPLIED IN COMPLIANCE WITH TITLE III SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) PART 313 AND 40 CFR 372

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS FOUND ON THE SARA LIST IN 40 CFR 372.

CALIFORNIA PROPOSITION 65: CONTAINS NO MATERIALS KNOWN TO BE ON THE CALIFORNIA PROPOSITION 65 LIST.

Listed on the following inventories: TSCA

SECTION 16 : OTHER INFORMATION

Large Spill: NA

Fire: NA

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Other Info:

DISCLAIMER

THE INFORMATION GIVEN HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THIS COMPANY OR NOT. THE INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT AND SUITABLE FOR THEIR NEEDS.

End of SDS

Certificate of Analysis

Project: Food Borne Organisms

Project Number: Developmental

| Description | Microbiological Analysis ¹ | | | | Chemical Analysis ² | Pass/Fail** |
|---|--|------|------|------|--------------------------------|-------------|
| Samples treated with AEM5772 | Percent Reduction Per Test Organism ³ | | | | Percent Extraction | |
| NAMSA Test Laboratory, Kennesaw, GA. | | | | | | |
| | A | B | C | D | | |
| Untreated | 0 | 0 | 0 | 0 | 0% | Fail |
| Treated | 99.9 | 99.9 | 99.9 | 99.8 | 86% | Pass |

Red indicates highest level observed

1 ASTM E2149-01 "Dynamic Shake Flask"

1g sample
 50 ml 0.3 mM KH₂PO₄
 1x10⁵ bacteria / ml
 0.01% Q2-5211 wetting agent

³

| |
|--|
| A: <i>Escherichia coli</i> ATCC 8739 |
| B: <i>Staphylococcus aureus</i> ATCC 6538 |
| C: <i>Listeria monocytogenes</i> ATCC 7645 |
| D: <i>Salmonella choleraesuis</i> ATCC 10708 |

2 Antimicrobial Barrier BPB Extraction (EXT):

1.0g sample weight 0.001% BPB
 dH₂O solution 20 minute exposure
 595nm Absorbance
 0.01 % Q2-5211 Wetting Agent

This project has been reviewed and approved by:

Robert A. Monticello, Ph.D.
 Laboratory Director
 AEGIS Laboratory Services

Certificate of Analysis

Antimicrobial Barrier

Test Method: ASTM E2149-01

Tested Against: Methicillin Resistant *Staphylococcus aureus* (MRSA)

This antibacterial test was performed to demonstrate the effectiveness of the Antimicrobial Barrier technology against Methicillin Resistant *Staphylococcus aureus* (MRSA) strain. Test Methods conform to ASTM E2149-01 guidelines (Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions). Specific details of testing and materials are listed below in the table.

These data indicate that the fabric tested, commercially treated with the Antimicrobial Barrier Technology (AEM5772/5), reduces the total population of MRSA bacteria >99.99%. Untreated fabric samples tested in parallel demonstrated no effectiveness at reducing the total MRSA population. These results indicate the antimicrobial effectiveness of the sample treated with the Antimicrobial Technology against the resistant bacteria MRSA.

| | MICROBIOLOGICAL ANALYSIS | | |
|-------------------------|-----------------------------|------------------------------|-------------------|
| | Initial Concentration | Final Concentration | Percent Reduction |
| Untreated fabric sample | 1.52 x 10 ⁵ / ml | 1.6 x 10 ⁵ / ml | 0% |
| Treated fabric sample | 1.52 x 10 ⁵ / ml | < 1.0 x 10 ¹ / ml | >99.99% |
| Inoculum control | 1.52 x 10 ⁵ / ml | 1.55 x 10 ⁵ / ml | 0% |

| ASTM E2149-01 | |
|---|--|
| Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions. | |
| Total Contact Time: | 1 hour |
| Total Volume: | 50 ml 0.3 mM KH ₂ PO ₄ + 0.01% Q2-5211 |
| Bacterial Strain: | Clinical Isolate Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) |
| Description of Sample Tested: | 1g each fabric commercially treated and untreated with AEM5772/5 |

Certified by: 
Robert A. Monticello, Ph.D.

For questions or additional information regarding this Certificate of Analysis, please contact us.