

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** MICROBARRIER ELITE™

### Other means of identification

**Product Code** 20691

### Recommended use of the chemical and restrictions on use

**Recommended Use** Antimicrobial coating

**Uses advised against** Follow the directions for use on the label when applying this product

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

PSSI Chemical Innovations  
3729 Peddle Hollow Road  
Kieler, WI 53812 USA

#### **Emergency telephone number**

**Company Phone Number** 888-671-5366

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

|                              |                               |                  |
|------------------------------|-------------------------------|------------------|
| <b>Physical state</b> Liquid | <b>Color</b> Clear, Colorless | <b>Odor</b> Mild |
|------------------------------|-------------------------------|------------------|

### Hazards not otherwise classified (HNOC)

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS No.     | Weight-% |
|---|-------------|----------|
| 3-(Trihydroxysilyl) propyldimethyloctadecyl ammonium chloride | 199111-50-7 | < 1      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### First aid measures

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms occur.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

### Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for symptom information.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam.

**Unsuitable extinguishing media** No information available.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products** No information available.

### Explosion data

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Cool containers with flooding quantities of water until well after fire is out.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.  
**For emergency responders** Isolate area. Keep unnecessary personnel away.

**Environmental precautions**

**Environmental precautions** See section 12 for additional ecological information. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).  
**Methods for cleaning up** Soak up with inert absorbent material. Collect spillage by sweeping up or shoveling into suitable containers for disposal. Following product recovery, flush area with water.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Keep away from food and beverages. Keep separated from incompatible substances.  
**Incompatible materials** Oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Showers, eyewash stations, ventilation system.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).  
**Skin and body protection** Wear protective Neoprene™ gloves or rubber gloves. Normal work clothing (long sleeved shirt and long pants) is recommended.  
**Respiratory protection** No protective equipment is needed under normal use conditions. If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not eat, drink or smoke when using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                                       |                          |                         |                          |
|---------------------------------------|--------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                 | Liquid                   | <b>Odor</b>             | Mild                     |
| <b>Appearance</b>                     | Aqueous solution         | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                          | Clear, Colorless         | <b>Remarks • Method</b> |                          |
| <b>Property</b>                       | <b>Values</b>            |                         |                          |
| <b>pH</b>                             | 5                        |                         | ±1 @ 21°C                |
| <b>Melting point / freezing point</b> | No information available |                         |                          |
| <b>Boiling point / boiling range</b>  | > 99 °C / > 210 °F       |                         |                          |
| <b>Flash point</b>                    | No information available |                         |                          |
| <b>Evaporation rate</b>               | No information available |                         |                          |
| <b>Flammability (solid, gas)</b>      | No information available |                         |                          |
| <b>Flammability Limit in Air</b>      |                          |                         |                          |
| <b>Upper flammability limit:</b>      | No information available |                         |                          |
| <b>Lower flammability limit:</b>      | No information available |                         |                          |
| <b>Vapor pressure</b>                 | No information available |                         |                          |
| <b>Vapor density</b>                  | No information available |                         |                          |
| <b>Specific Gravity</b>               | 1.003 g/cc               |                         |                          |

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Water solubility</b>             | Soluble in water         |
| <b>Solubility in other solvents</b> | No information available |
| <b>Partition coefficient</b>        | No information available |
| <b>Autoignition temperature</b>     | No information available |
| <b>Decomposition temperature</b>    | No information available |
| <b>Kinematic viscosity</b>          | No information available |
| <b>Dynamic viscosity</b>            | No information available |
| <b>Explosive properties</b>         | No information available |
| <b>Oxidizing properties</b>         | No information available |
| <b>VOC Content (%)</b>              | 0.00%                    |

## 10. STABILITY AND REACTIVITY

### Reactivity

Non-reactive

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Incompatible materials. Do NOT mix with other chemicals. Keep from freezing.

### Incompatible materials

Oxidizers.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | None under normal use conditions.   |
| <b>Eye contact</b>  | Contact with eyes may cause irritation.   |
| <b>Skin Contact</b> | Prolonged contact may cause irritation.   |
| <b>Ingestion</b>    | Not an expected route of exposure. May cause irritation. Do not taste or swallow. |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                 |  |
|---------------------------------|--|
| <b>Sensitization</b>            | No information available.  |
| <b>Germ cell mutagenicity</b>   | No information available.  |
| <b>Carcinogenicity</b>          | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| <b>Reproductive toxicity</b>    | No information available.  |
| <b>STOT - single exposure</b>   | No information available.  |
| <b>STOT - repeated exposure</b> | No information available.  |
| <b>Aspiration hazard</b>        | No information available.  |

### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility

Soluble in water.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |   |
|-------------------------------|---|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Dispose of in accordance with federal, state and local regulations.                                 |

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

|                      |                          |
|----------------------|--------------------------|
| <b>TSCA</b>          | No information available |
| <b>DSL/NDSL</b>      | No information available |
| <b>EINECS/ELINCS</b> | No information available |

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

|  |    |
|--|----|
| <b>Acute health hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 87583-3-63679

## 16. OTHER INFORMATION

|             |                         |                       |                           |   |
|-------------|-------------------------|-----------------------|---------------------------|---|
| <b>NFPA</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 1      | <b>Physical and Chemical Properties</b> |
|             |                         |                       |                           | None                                    |
| <b>HMIS</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 0 | <b>Physical hazards</b> 1 | <b>Personal protection</b>              |
|             |                         |                       |                           | B (safety glasses, gloves)              |

|                      |                                  |
|----------------------|----------------------------------|
| <b>Prepared By</b>   | Technical Department             |
| <b>Issue Date</b>    | 22-Oct-2019                      |
| <b>Revision Date</b> | 21-Jul-2020                      |
| <b>Version</b>       | 2                                |
| <b>Revision Note</b> | Hazards update; Numerous updates |

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

**End of Safety Data Sheet**