

# SAFETY DATA SHEET

Revision Date 27-Jan-2023 Version 1

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

Product identifier

Product Name MICROBARRIER PRIME™

Other means of identification

Product Code 20692

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** 

Safe Foods Chemical Innovations

1501 E. 8th Street

North Little Rock, AR 72114

Emergency telephone number

Company Phone Number 501-758-8500

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Category 5

#### Label elements

#### **Emergency Overview**

## WARNING

#### Hazard statements

May be harmful if swallowed

May be harmful in contact with skin

Physical state Liquid Color Clear, Colorless Odor Slight

#### **Precautionary Statements - Prevention**

Wear protective gloves/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

# Precautionary Statements - Response

If not feeling well, get medical attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/attention

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

# Hazards not otherwise classified (HNOC)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS						
Chemical Name	CAS No.	Weight-%				
Octadecylaminodimethyltrihydroxysilyl	27668-52-6	0.75				
propyl ammonium chloride						

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.

#### MICROBARRIER PRIME™

Skin contact Rinse skin immediately with plenty of water for 15-20 minutes. Take off contaminated

clothing. If skin irritation occurs: Get medical advice/attention.

Inhalation Get medical attention if symptoms occur. Remove to fresh air. Administer oxygen if

> breathing is difficult. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an Ingestion

unconscious person.

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

No information available.

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. Cool containers with flooding quantities of water until well after fire is out.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially Personal precautions

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.

Spilled material will make surfaces slippery. Small spills may be mopped up, flushed away Methods for cleaning up

with water or absorbed on some absorbent material. Large spills should be contained; the material then moved into containers and disposed of by approved methods. After cleaning,

flush away traces 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. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Do not reuse container. Keep containers tightly closed in a cool, well-ventilated place. Avoid

extremes of temperature and direct sunlight. Keep from freezing. Keep away from food and

beverages. Keep separated from incompatible substances.

Acids. Oxidizers. Incompatible materials

# 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

Wear safety glasses with side shields (or goggles). Eye/face protection

Wear protective Neoprene™ gloves or rubber gloves. Normal work clothing (long sleeved Skin and body protection

shirt and long pants) is recommended. Rubber boots recommended.

No protective equipment is needed under normal use conditions. If irritation is experienced, Respiratory protection

NIOSH/MSHA approved respiratory protection should be worn.

### MICROBARRIER PRIME™

**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

Physical state Liquid

**Appearance** Aqueous solution Odor Slight

Color **Odor threshold** Clear, Colorless No information available

Property Values\_ Remarks • Method ±1 @ 21°C

Ha

0 °C / 32 °F Melting point / freezing point Boiling point / boiling range 100 °C / 212 °F Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available No information available Vapor pressure Vapor density No information available

**Specific Gravity** 0.99-1.01 g/cc Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

0.00% **VOC Content (%)** 

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

Hazardous polymerization Will not occur.

**Conditions to avoid** 

Keep from freezing. Extremes of temperature and direct sunlight. Do NOT mix with other chemicals. Incompatible materials.

Incompatible materials

Acids. Oxidizers.

**Hazardous Decomposition Products** 

Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

Inhalation Avoid breathing vapors or mists. Moderately irritating to the eyes. Eye contact **Skin Contact** May be harmful in contact with skin. May be harmful if swallowed. Ingestion

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Octadecylaminodimethyltrihydroxysilyl propyl ammonium chloride	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2 mg/L (Rat)1 h
27668-52-6			

Information on toxicological effects

**Symptoms** No information available.

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

Sensitization No information available. Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

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Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

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

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

## Persistence and degradability

Inherently biodegradable. The trihydroxysilyl quats are not expected to contaminate surface or ground water due to rapid degradation by hydrolysis. (US EPA 739-R-07-007).

#### Bioaccumulation

No information available.

Mobility

Soluble in water.

No information available Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations. Refer to label for Disposal Instructions.

Dispose of in accordance with federal, state and local regulations. Do not reuse container. Contaminated packaging

Refer to label for Disposal Instructions.

# 14. TRANSPORT INFORMATION

DOT Not regulated

#### 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies

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

Acute health hazard Yes **Chronic Health Hazard** Nο Fire hazard Nο Sudden release of pressure hazard No **Reactive Hazard** 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

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**EPA Pesticide Registration Number** 53053-24-63679

16. OTHER INFORMATION								
NFPA	Health hazards 1	Flammability 0	Instability 0		Physical and Chemical Properties None			
<u>HMIS</u>	Health hazards 1	Flammability 0	Physical hazards	0	Personal protection B (safety glasses, gloves)			
Prepared By Issue Date Revision Date		Technical Departme 29-Sep-2022 27-Jan-2023	ent					

Version 1

**Revision Note** Company name update.

# **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** 

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