

# **Safety Data Sheet**

Issue Date: 26-Mar-2020 Revision Date: 27-Mar-2020 Version 1

1. IDENTIFICATION

**Product identifier** 

Product Name Microbe Free Solutions Powered by BIOPROTECT Hydrating Hand Sanitizer

Other means of identification

**SDS #** MFS-001

Recommended use of the chemical and restrictions on use

Recommended Use Hand Sanitizer.

Details of the supplier of the safety data sheet

Manufacturer Address Microbe Free Solutions 1065 SE Paiute Way, Ste 125 Bend, OR 97702

Ph: 800-553-6866

Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

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

**Appearance** Clear colorless to straw colored liquid

Physical state Liquid

Odor Mild

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%		
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride	8001-54-5	<1.0		
Dimethyloctadecyl[3-	27668-52-6	<1.0		
(trimethoxysilyl)propyl]ammonium chloride				

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

in 5 551 miores 1700 columnic 1 on 5150 by Blot No 1201 Hydraming hand cannot be

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Provide this SDS to medical personnel for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Not an expected route of exposure. Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a

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poison center or doctor/physician if you feel unwell or if skin irritation persists.

Inhalation Not an expected route of exposure. Remove exposed individual(s) to fresh air for 20

minutes. Consult a physician/poison center if individual's condition declines or if symptoms

persist.

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. Drink 1 or 2 glasses of water.

Never give anything by mouth to an unconscious person. Call a poison center or

doctor/physician if you feel unwell.

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

**Symptoms** May cause eye irritation. May cause gastrointestinal irritation, nausea, diarrhea, and

vomiting.

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

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Product is not flammable or combustible.

Hazardous combustion products Carbon oxides.

## 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 exposed containers with water to prevent rupturing.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide

adequate ventilation.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

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Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert

(i.e. vermiculite, dry sand or earth) absorbent material.

**Methods for Clean-Up**Reclaim where possible. Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Wash face, hands and any exposed skin thoroughly after

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handling.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s). The following information is given as general

guidance

Appropriate engineering controls

Engineering Controls Make emergency eyewash stations, safety/quick-drench showers, and washing facilities

available in work area.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** None required under normal use. Chemical safety goggles/faceshield. Refer to 29 CFR

1910.133 for eye and face protection regulations.

**Skin and Body Protection**None required under normal use. Wear protective gloves and protective clothing. Refer to

29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Under normal conditions, respirator is not normally required. Refer to 29 CFR 1910.134 for

respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear colorless to straw colored liquid Odor Mild

Color Clear colorless to straw colored Odor Threshold Not determined

Property Values Remarks • Method

pH 5.5-7.0 Melting point / freezing point Not determined

Boiling point / boiling range 100 °C Flash point >200 °F

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

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Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor Pressure Not determined Vapor Density Not determined

Relative Density 1.00

**Water Solubility** Soluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

## **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Excessive heat and fire. Keep from freezing.

#### Incompatible materials

Strong oxidizing agents.

#### **Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Eye Contact** May cause temporary irritation on eye contact.

**Skin Contact** None, this product is a skin conditoner.

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

**Ingestion** May cause irritation of gastrointestinal tract.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Dimethyloctadecyl[3- (trimethoxysilyl)propyl]ammonium chloride 27668-52-6	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	> 2 mg/L (Rat)1 h		
N-Alkyl-N-benzyl-N,N- dimethylammonium chloride 8001-54-5	= 240 mg/kg(Rat)	= 1420 mg/kg(Rat)	-		

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Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50 24,242.40 mg/kg

ATEmix (inhalation-dust/mist) 5.06 mg/L

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea	
N-Alkyl-N-benzyl-N,N-		0.823 - 1.61: 96 h Oncorhynchus		
dimethylammonium chloride		mykiss mg/L LC50 static 1.3: 96 h		
8001-54-5		Poecilia reticulata mg/L LC50 semi-		
		static 2.4: 96 h Oryzias latipes mg/L		
		LC50 semi-static 0.223 - 0.46: 96 h		
		Lepomis macrochirus mg/L LC50		
		static		

## Persistence/Degradability

Not determined.

#### **Bioaccumulation**

There is no data for this product.

#### **Mobility**

Not determined

#### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

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#### **Waste Treatment Methods**

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

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

## 15. REGULATORY INFORMATION

#### International Inventories

Chemical name	<b>TSCA</b>	TSCA Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
		Status		NCS					
Dimethyloctadecyl[3- (trimethoxysilyl)propyl]ammo nium chloride	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride			X			Х	X	Х	Х

#### 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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **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).

#### **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

#### **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)

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#### **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 under applicable state right-to-know regulations

## **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards100Not determinedHMISHealth HazardsFlammabilityPhysical hazardsPersonal Protection100B

Issue Date:26-Mar-2020Revision Date:27-Mar-2020Revision Note:New format

#### **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 information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**