

Safety Data Sheet

Issue Date: 18-May-2020 Revision Date: 18-May-2020 Version 1

1. IDENTIFICATION

Product identifier

Product Name BIOPROTECT RTU

Other means of identification

SDS # VIA-005

Registration Number(s) EPA Reg. No. 87583-3

Recommended use of the chemical and restrictions on use

Recommended Use Organosilane Antimicrobial.

<u>Details of the supplier of the safety data sheet</u> Manufacturer Address

PureShield Inc. a ViaClean Technologies Company 230 S. Broad Street Suite 1201 Philadelphia, PA 19102

Ph: 877-447-5956

Emergency telephone number

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

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear, colorless 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-%
Dimethyloctadecyl[3-	27668-52-6	<1.0
(trimethoxysilyl)propyl]ammonium chloride		

^{**}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.**

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 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call

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

contaminated clothing before reuse.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist. If not breathing, give artificial

respiration.

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 Moderate skin and 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).

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.

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 Sweep up and shovel into suitable containers for disposal. For waste disposal, see section

13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or

smoke when using this product. Wear eye/face protection.

Conditions for safe storage, including any incompatibilities

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

Incompatible MaterialsDo not mix with other cleaners or chemicals. Strong oxidizing agents. Inorganic acids.

Inorganic bases.

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 Apply technical measures to comply with the occupational exposure limits. Make

emergency eyewash stations, safety/quick-drench showers, and washing facilities available

in work area. General ventilation is recommended.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

Skin and Body Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact. 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

AppearanceClear, colorless liquidOdorMild

Color Clear, colorless Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH ~5.0

Melting point / freezing point Not determined

Boiling point / boiling range >210

Flash point
Evaporation Rate
Flammability (Solid, Gas)
Flammability Limit in Air

Not determined
Not determined

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor Pressure N/A Vapor Density N/A Relative Density 1.003

Water Solubility Not determined 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

Do not mix with other cleaners or chemicals. Strong oxidizing agents. Inorganic acids. Inorganic bases.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact May cause temporary irritation on eye contact.

Skin Contact Prolonged contact may cause redness and irritation.

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 LI		Oral LD50	Dermal LD50	Inhalation LC50		
	Dimethyloctadecyl[3- > 5000 mg/kg (Rat) (trimethoxysilyl)propyl]ammonium chloride		> 2000 mg/kg(Rabbit)	> 2 mg/L (Rat)1 h		

27668-52-6

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

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

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

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
		Status		NCS					
Dimethyloctadecyl[3-	Х	ACTIVE	Χ	Х	Χ	Х	Х	Х	Х
(trimethoxysilyl)propyl]ammo									
nium chloride									

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)

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 Hazards101Not determinedHMISHealth HazardsFlammabilityPhysical hazardsPersonal Protection101B

Issue Date:18-May-2020Revision Date:18-May-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