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BioShield Technologies, Inc.



# Material Safety Data Sheet

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## BioShield BST Protectant RTU 75

Date Prepared: 9/12/01  
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**EMERGENCY TELEPHONE**  
**800-424-9300 (CHEMTREC)**

----- **Chemical Product Identification** -----

Generic Description: Aqueous Organosilane  
Physical Form: Liquid  
Color: Colorless to pale yellow  
EPA Registration Number: 70871-1

----- **Composition, Information on Ingredients** -----

**Ingredients**

N/A - Not Available CAS# = Chemical Abstract Service Number

INGREDIENTS	CAS #	TWA	STEL	% by Weight
Octadecylaminodimethyltrimethoxysilylpropyl ammonium chloride	27668-52-6	N/A	N/A	0.75%
Other Ingredients				99.25%

Note: The above information is not intended for use in preparing product specifications.

----- **Hazards Identification Emergency Overview** -----

Appearance and Odor: Colorless to pale yellow liquid, odorless to slight alcoholic  
Primary Routes of Entry: Skin contact, Eye contact, Inhalation

This material contains the following components with the special hazards listed below .

----- **First Aid Measures** -----

Signal Word: **Caution**

**Emergency First Aid Procedures:**

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**IF ON SKIN**

- Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

\* A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae. This product does not protect users or others against food-borne or disease-causing bacteria.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes and skin. Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

**Commercial and industrial uses:** This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. De-activation may be required during clean up if a spill occurs. De-activation of BST Protectant RTU 75 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BST Protectant RTU 75.

**Residential use:** This pesticide is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of pesticide. Do not apply directly to water.

----- **Fire Fighting Measures** -----

**Physical and Chemical Characteristics (Fire and Explosion Data)**

Boiling Point (760 MM HG).....	N/A
Specific Gravity (At 68°F/20°C).....	1.0 g/mL
Vapor Pressure .....	N/A
Viscosity (At 68°F/20°C).....	393 mPa·s
pH (approximately).....	5
Solubility in Water.....	Complete
Reactivity in Water.....	None
Appearance and Odor.....	Pale yellow liquid, slight alcoholic odor
Flash Point.....	N/A
Flammable or Explosive Limits	N/A
Unusual Fire & Explosion Hazards.....	N/A
Hazardous Polymerization.....	Will not occur

Do not contaminate water, food, or feed by storage and disposal.

----- **Physical and Chemical Properties** -----

Physical Form:	Clear liquid	Color:	Light yellow
Odor:	Odorless or slight alcoholic	Boiling Point:	N/A
Freezing Point:	N/A- do not freeze product	Solubility in Water:	Complete
Volatile Content (>0.1 mmHg):	<10%		

----- **Stability and Reactivity** -----

Chemical Stability: Under normal conditions this material is stable. Product should not be frozen.  
Hazardous Polymerization: Hazardous polymerization will not occur  
Incompatibility: Acids, alkalis, strong oxidizing agents and anionic surfactants.

----- **Transport Information** -----

Dot Information: D.O.T Not Regulated

----- **Regulatory Information** -----

US Federal Regulations

TSCA (Toxic Substances Control Act) Status: All components of this product are listed on the TSCA inventory of chemical substances.

European Inventory of Existing Commercial Chemical EINECS registry number for 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride is 248-595-8. (EINECS No. 248-595-8)

CERCLA RQ - 40 CFR 302.4(a): Methanol 67-56-1 5000 Lb RQ

SARA 302 Components - 40 CFR 355 Appendix A: None

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site. **[residential use]** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**[commercial/industrial use]**

Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

**[residential use]**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **[commercial/industrial use]**

**IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION**

BioShield Technologies, Inc., warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin when used in accordance with directions under normal conditions of use; but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to bulletin instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

BIOSHIELD SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY