

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name: ENVIROSYSTEMS® BIOSHIELD® 75

Revision Date: July 8, 2019

Chemical Description: Organosilane antimicrobial

Manufacturer: IndusCo, Ltd.

2319 Joe Brown Drive Greensboro, NC 27405

Main Telephone No. 336-375-7555

CHEMTREC-For Emergencies Only 1-800-424-9300 (24 hours), International 1-703-527-3887

NZ National Poison Centre 0800 764 766 (0800 POISON)

# SECTION 2: HAZARDS IDENTIFICATION/EMERGENCY OVERVIEW

Classification of the

Substance or Mixture: ACUTE ORAL TOXICITY – Category 5

ACUTE DERMAL TOXICITY - Category 5

Hazard Pictograms: None

Signal Word: Warning

Hazard Statements: May be harmful if swallowed.

May be harmful in contact with skin.

**Precautionary Statements** 

Prevention: Wear protective gloves/clothing and eye/face protection. Avoid breathing dust/fume/mist/vapors/spray.

Response: If you are not feeling well, get medical attention.

IF SWALLOWED: Rinse mouth. If not feeling well, get medical attention.

IF ON SKIN: Rinse skin with water or shower. If not feeling well, get medical attention.

IF SKIN IRRITATION OR RASH OCCURS: Wash with plenty of water. Take off contaminated clothing and

0.75%

wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: If you are not feeling well, get medical attention.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international

regulations.

## SECTION 3: COMPOSTION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>Ingredient</u> <u>CAS #</u> <u>CONCENTRATION</u>

Octadecylaminodimethyltrihydroxysilyl propyl 27668-52-6

ammonium chloride

[also named 3-(trihydroxysilyl) propyldimethyloctadecyl

ammonium chloride in water]

#### **SECTION 4: FIRST AID MEASURES**

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

do. Continue rinsing. Get medical attention if irritation persists.

Inhalation: If not feeling well, get medical attention. Remove victim to fresh air and keep at rest in a

> position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. 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.

Skin Contact: If skin irritation or rash occurs: Wash with plenty of water. Take off contaminated clothing and

wash it before reuse. Get medical advice/attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Do not induce vomiting. Never give anything by mouth to an

unconscious person.

## 5. FIRE FIGHTING MEASURES

Not combustible. Flammability of the Product

**Extinguishing Media** Small Fire: Use DRY chemical powder

Large Fire: Use water spray, fog, or foam.

**Protective Equipment** 

for Firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spill or Leak Dilute with water and mop up or absorb with an inert dry material and place in an appropriate

waste disposal container. If necessary, use suitable protective equipment (Section 8). Finish cleaning by spreading water on the contaminated surface and dispose of according to local and

regional authority requirements.

Large Spill or Leak Absorb with an inert material and put the spilled material in an appropriate waste disposal

container. Use suitable protective equipment (Section 8). Do not release into the environment.

**Containment Methods** 

and drainage systems which lead to waterways. Contain and collect spillage with absorbent material, i.e. sand, earth, diatomaceous earth and place in a container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled

Stop the flow of material if this is without risk. Prevent spilled material from entering sewage

product.

### 7. HANDLING AND STORAGE

**Protective Measures** Wear appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do

> not breathe vapor or mist. Wear appropriate respirator when ventilation is inadequate. Do not enter storage spaces unless adequately ventilated. Keep in the original container and keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before

containment to avoid environmental contamination. Empty containers retain product residue

entering eating areas. Workers should wash hands and face before eating, drinking, or smoking.

Conditions for Safe Storage Do not store below 0°C (32°F). Store in accordance with local regulations. Store in a segregated area. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area, away from incompatible materials and food and drink. Separate from acids and oxidizing materials. Keep container closed and tightly sealed until ready for use. Use appropriate

and can be hazardous. Do not reuse container.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other

engineering controls to keep worker exposure to airborne contaminants below any

recommended or statutory limits.

Personal Protection Eyes Wear eye and/or face protection.

Skin Permeation resistant gloves. Considering the parameters specified by the glove

manufacturer, check during use that the gloves are still retaining their protective properties. Permeation resistant clothing and foot protection.

Respiratory No personal respiratory protective equipment is normally required. If

engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable), an approved respirator must

be worn.

General Hygiene Considerations When using, do not eat, drink, or smoke. Do not get this material in contact with skin. Wash hands and face before breaks and immediately after handling the product. Wash hands after handling and before eating. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Color Clear colorless

Odor Slight
pH 3.5 - 5.0
Viscosity, 25'C Water Thin
Evaporation Rate Not available
Explosion Limits Non-Explosive
Specific Gravity 0.99-1.01

Flash Point Not combustible

Solubility Soluble in cold or hot water

Auto-ignition Temperature Not available Decomposition Temperature Not available

### 10. CHEMICAL STABILITY AND REACTIVITY

Reactivity No specific test data for this product

Chemical Stability Material is stable under normal conditions.

Conditions to Avoid Extremes of temperature and direct sunlight.

Incompatible Materials Inorganic acids and bases. Avoid contact with oxidizing agents (for example, nitric acid,

peroxides, and chromates.)

Hazardous Decomposition

**Products** 

Carbon monoxide. Organic compounds which may be toxic.

Hazardous Polymerization Hazardous polymerization will not occur.

### 11. TOXICOLOGICAL INFORMATION

CARCINOGENS: OSHA: NO ACGIH:NO NTP:NO IARC:NO

Acute Oral Toxicity, SD Rats

Oral LD<sub>50</sub> >2000 mg/kg

Acute Dermal Toxicity, SD Rats

Dermal LD<sub>50</sub> >2000 mg/kg

Acute Dermal Irritation, Rabbit Non-Irritant BioShield® 75 is classified as "Non-irritant" to rabbit skin according to Globally

Harmonized System for Classification of Chemicals (UN GHS, 2017)

Acute Eye Irritation, Rabbit Non-Irritant

Skin Sensitization, Guinea Pigs Negative (Magnusson and Kligman Rating of Allergenicity - Weak Sensitizer, Grade 1)

Acute Inhalation Toxicity, SD Rats Unclassified

#### 12. ECOLOGICAL INFORMATION

Degradability/OECD 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)

#### 13. DISPOSAL CONSIDERATIONS

Environmental Hazards

De-activation required during clean up if a spill occurs. De-activation can be achieved by addition of anionic surfactants in quantity equivalent to that of BioShield®75 actives. This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

### 14. TRANSPORT INFORMATION

Land-DOT (US Dept of Transportation)------- Not Dangerous Goods, Not Regulated Sea-IMDG (International Maritime Dangerous Goods Code)-- Not Dangerous Goods, Not Regulated Air-IATA (International Air Transport Association)------ Not Dangerous Goods, Not Regulated

## 15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200): Hazardous

TSCA: All intentionally present components are listed on the TSCA inventory.

CERCLA Hazardous substances: none

SARA 311/312 HAZARD CATERGORIES:

Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA Title III Section 302 Extremely Hazardous Substances: none

SARA Title III Section 313 Toxic Chemicals subject to reporting: none

State Regulations CALIFORNIA:

This product contains no chemicals known by the State of California (Proposition 65) to cause

cancer, birth defects or other reproductive harm.

International Regulations EINECS registry number

3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride: 248-595-8

NZ Group Standard HSR002530

### 16. OTHER INFORMATION

Notice to the Reader: The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The information is designed for workplace employees, emergency personnel and for other situations where there is a potential for large-scale or prolonged exposure. For consumer use, all precautionary and first aid language is provided on the product label in accordance with applicable government regulations. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information. The Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products.