INDUSCO, LTD.
MANUFACTURING CHEMISTS

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EnviroSystems® BioShield® 75

CHEMICAL DESCRIPTION: Organosilane

COMPANY IDENTIFICATION: IndusCo, Ltd.
2319 Joe Brown Drive
Greensboro, NC 27405

EMERGENCY TELEPHONE 800) 262-8200 (24 HOURS) CHEMTREC

2. HAZARDS IDENTIFICATION

HMIS Profile: Health 1 Flammability 0 Physical Hazard 0 Personal Protection D

**** EMERGENCY OVERVIEW ****

Warning: SLIGHTLY IRRITATING TO THE EYES. HARMFUL IF INGESTED OR INHALED. Do not get in eyes or on clothing. Avoid contact with skin or clothing, and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before use.

PRIMARY ROUTES OF ENTRY: Skin contact, ingestion, and eye contact.

POTENTIAL HEALTH EFFECTS:

EYES: Slightly irritating to the eyes.

SKIN: May cause slight irritation.

INGESTION: Harmful if swallowed.

INHALATION: Harmful if inhaled for long periods.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not known.

CARCINOGENS: OSHA: No ACGIH: No NTP: No IARC: No

SECTION 2 NOTES: None

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO.	% Weight	OSHA (PEL)	ACGIH (TLV)
Octadecylaminodimethyltrihydroxysilyl propyl ammonium chloride	27668-52-6	0.75%		

Methanol	67-56-1	<0.2%	200 ppm	250 ppm

SECTION 3 NOTES: The above information is not intended for use in preparing product specifications.

4. FIRST AID MEASURES

EYES: Hold eye open and flush with a steady, gentle stream of water for 15-20 minutes. If present, remove contact lenses after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

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.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have the 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.

INHALATION: Move person to fresh air. If not breathing, give artificial respiration. Seek medical attention.

SECTION 4 NOTES: None

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: UPPER: N/A LOWER: N/A
FLASH POINT: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine Compounds, Carbon Oxides, Nitrogen Oxides

SECTION 5 NOTES: None

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
For small spills, hose away with water. For large spills, transfer to suitable container for disposal.

SECTION 6 NOTES: This material will be slippery if spilled.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Do not get into eyes. For sensitive skin, wear gloves (rubberl/latex) when handling product. Store away from heat and direct sunlight.

SECTION 7 NOTES: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: To avoid eye contact, wear goggles.

SKIN PROTECTION: Rubber/Latex gloves for sensitive skin.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

SECTION 8 NOTES: None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Clear colorless liquid
ODOR:	Odorless
SPECIFIC GRAVITY:	0.98 – 1.02
SOLUBILITY IN WATER:	Complete
pH:	4.5 – 5.5
FREEZING POINT:	32˚F/0^{o}C
BOILING POINT:	212˚F/100^{o}C
MELTING POINT:	Not available
VAPOR PRESSURE:	Not available
VISCOSITY:	<85 mPa·s
VOLATILE CONTENT:	Not available
PERCENT SOLIDS BY WEIGHT:	Not available

SECTION 9 NOTES: None

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Will not occur.

INCOMPATIBLE MATERIALS TO AVOID: Do not mix with cleaners, do not freeze, and avoid heat and direct sunlight.

SECTION 10 NOTES: None

11. TOXICOLOGICAL INFORMATION

TOXICITY: Eye Irritation: Minimally irritating to eyes (Rabbit)

SECTION 11 NOTES: None

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS: This product is toxic to fish. Do not apply to water by cleaning of equipment or disposal of product.

SECTION 12 NOTES: None

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste resulting from the use of this product may be disposed of on site. Deactivation of the product may be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of the product.

SECTION 13 NOTES: None

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORATION: Not regulated

SECTION 14 NOTES: None

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

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

SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A: None

SARA 311/312 HAZARD CATERGORIES:

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

SARA 313 REPORTABLE INGEDIENTS: Methanol

STATE REGULATIONS:

CALIFORNIA: Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer:
None.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm:
Methyl Alcohol

MASSACHUSETTS: Methyl Alcohol

NEW JERSEY: Methyl Alcohol

PENNSYLVANIA: Methyl Alcohol

INTERNATIONAL REGULATIONS:

EINECS registry number for 3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride is 248-595-8. (EINECS No. 248-595-8)

SECTION 15 NOTES: None.

16. OTHER INFORMATION

PREPARATION INFORMATION: Prepared by IndusCo, Ltd.
DISCLAIMER: This information is offered in good faith as typical values and not as a product specification. No warranty, expressed of implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Date Issued: 09/11/2012