



Material Safety Data Sheet

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Issued: 07/29/09

Revision No: 2

MonoFoil Technology® Program

(MonoFoil Technology® – Typical Application Strength)

(Typical Application Strength using 2.0% MonoFoil Antimicrobial)

Revision Date: 07/29/2009

Replaces Date : 01/30/09

Note: This Material Safety Data Sheet has been prepared to provide information on a typical application strength material which is used in the treatment of goods and surfaces. MonoFoil Antimicrobial is sold as a finished mixture in anionic Water. For application, MonoFoil Antimicrobial is typically ready to use or may be diluted with water.

SECTION 1 — CHEMICAL PRODUCT AND COMPANY INFORMATION

Coeus Technology
2701 Enterprise Drive, Suite 230
Anderson, IN 46013

T: (765) 203-2304

Generic Description: Organosilane in water
Physical Form: Liquid
Color: Colorless
Odor: None
NFPA Profile: Health 1, Flammability 0, Reactivity 0

NFPA = National Fire Protection Association

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt. %</u>	<u>Component</u>	<u>Exposure Limits</u>
199111-50-7	2.0	Octadecyldimethyltrihydroxy-silylpropyl Ammonium Chloride	
7732-18-5	>98.0	Water	None

Comments: None

SECTION 3 — EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact may cause irritation
Skin: No untoward effects
Inhalation: No untoward effects
Oral: No untoward effects

Prolonged/Repeated Exposure Effects

Skin: No untoward effects
Inhalation: No untoward effects
Oral: No untoward effects

Signs and Symptoms of Overexposure

No known applicable information

Medical Conditions Aggravated by Exposure

No known applicable information

Comments: The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

SECTION 4 — FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes. Get medical attention.
Skin: Get medical attention if irritation or ill effects develop or persist.
Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
Oral: Get medical attention if ill effects develop or persist.

Comments: None

SECTION 5 — FIRE FIGHTING MEASURES

Flash Point (closed cup): None
Autoignition Temperature: Not Applicable
Extinguishing Media: Not Applicable
Fire Fighting Procedures: Not Applicable
Unusual Fire Hazards: None

Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high heat conditions may evolve hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds; Nitrogen oxides; Chlorine compounds; Silicon dioxide.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: Use absorbent material to collect and contain for disposal in a landfill.
Neutralize with anionic detergent (Tide).

SECTION 7 — HANDLING AND STORAGE

Storage: Store below 100 °F
Other Precautions: Works best between 50 - 90°F

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: To avoid eye contact wear goggles.
Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be cleaned before reuse. Rubber or plastic gloves are recommended.
Inhalation/Suitable Respirator No special requirements.

Personal Protective Equipment for spills

Eyes: To avoid eye contact wear goggles.
Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be cleaned before reuse. Rubber or plastic gloves are recommended.
Inhalation/Suitable Respirator No special requirements.
Precautionary Measures: Do not get in eyes. Avoid skin contact. Do not take internally.

Comments: Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray pressurized applications may require added precautions.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid	Boiling Point:	212°F / 100°C
Color:	Colorless	Vapor Pressure @ 25 °C:	Not Determined
Odor:	None	Vapor Density:	Not Determined
Specific Gravity @ 25 °C:	1.00	Solubility in Water:	Miscible
Viscosity:	Not Determined	pH:	~5
Freezing/Melting Point:	32°F / 0°C	Volatile content:	<0.5%

Note: The above information is not intended for use in preparing product specifications. Contact COEUS before writing specifications

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Hazardous polymerization will not occur.
Conditions to Avoid: None
Materials to Avoid: Anionic materials, i.e. surfactants. Materials that would shift pH to 10.5

Comments: None

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicology Data for Product: **Oral:** (Extremely low) LD₅₀ >5000 mg/kg body weight; Albino Rat
Skin: (Extremely Low) LD₅₀ >5050 mg/kg body weight; Albino Rabbit

SECTION 12 — ECOLOGICAL INFORMATION

Environmental Fate and Distribution:	No specific information is available.
Exotoxicity:	No specific information is available.
Persistence and Degradation:	No specific information is available on the Octadecyldimethyltrihydroxy-silylpropyl Ammonium Chloride

This product 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 mill produced solutions can be achieved by the addition of an anionic surfactant or detergent (such as soap, sulfones, or sulfates) in quantity equivalent to that of the active ingredient.

SECTION 13 — DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No
Federal Hazardous Waste Code: N/A

Characteristic Waste: Ignitable: N/A Corrosive: N/A Reactive: N/A TCLP: N/A

Comments: State or local laws may impose additional regulatory requirements regarding disposal.
N/A = Not Applicable
Call Coeus Technology, Inc. 1-765-203-2304, if additional information is required.

SECTION 14 — TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: Not Regulated

Ocean Shipment (IMDG)

Proper Shipping Name: Not Regulated

Air Shipment (IATA)

Proper Shipping Name: Not Regulated

Call Coeus Technology, Inc. (765) 203-2304, if additional information is required.

SECTION 15 — REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None
(40 CFR 355)

Section 304 CERCLA Hazardous Substances: (40 CFR 355)	<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
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Section 312 Hazard Class: (40CFR 370) Acute: N Chronic: N Fire: N Pressure: N Reactive: N
Y = Yes N = No

Section 313 Toxic Chemicals: (40 CFR 372)	<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
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Supplemental State Compliance Information:

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, birth defects or other reproductive harm:

None Known

SECTION 16 — OTHER INFORMATION

Prepared by Coeus Technology, Inc.

This information is offered in good faith as typical values and not as product specifications. No warranty either expressed or 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.

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