



SAFETY DATA SHEET

Issuing Date January 3, 2017

Revision Date New

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name MonoFoil D

Other means of identification

EPA Registration Number 87538-4-92366

Recommended use of the chemical and restrictions on use

Recommended use Antimicrobial Disinfectant. Commercial, residential, Industrial

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

MonoFoil USA, LLC
5540 West 53rd Street Parkway
Anderson, IN 46013

Phone: 1-765-203-2304

Emergency telephone number

Emergency Phone Numbers For Medical Emergencies, call: 1-800-222-1222

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered non-hazardous by the 2012 OSHA Hazard Communication Standard

GHS Label elements, including precautionary statements**Emergency Overview**

Signal word	Caution
Hazard Statements Causes moderate eye irritation	
Appearance Clear	Physical State Thin liquid
	Odor None

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response

Hold eye open and rinse slowly and gently with water for 15-20 minutes
Remove contact lenses. If present after first 5 minutes then continue rinsing
Call a Poison Control Center or doctor for treatment advice.

Precautionary Statements - Storage

Keep out of reach of Children

Precautionary Statements - Disposal

Dispose of contents in accordance with all applicable federal, state, and local regulations.

Hazards not otherwise classified (HNOC)

None

Unknown Toxicity

Not applicable.

Other information

This pesticide is toxic to fish.

Interactions with Other Chemicals

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
3 (trihydroxysilyl) propoyldimethyloctadecyl ammonium chloride	27668-52-6	.13	*
N-Alkyl Dimethyl Benzyl Ammonium Chloride (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₈ , 5% C ₁₂)	63449-41-2	.25	
N-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride (68% C ₁₂ , 32% C ₁₄)	85409-23-0	.25	

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures****General Advice**

Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance.

Eye Contact

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 eye. Call a poison control center or doctor for treatment advice.

Most important symptoms and effects, both acute and delayed**Most Important Symptoms and Effects**

Prolonged exposure can be irritating to skin.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not applicable.

Unsuitable Extinguishing Media

Not applicable.

Specific Hazards Arising from the Chemical

This product can cause moderate eye irritation

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes,

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental Precautions This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb and containerize. Use ionic laundry soap to deactivate. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product.

Incompatible Products Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
3 (trihydroxysilyl) propoyldimethyloctadecyl ammonium chloride	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures Eyewash stations

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Thin liquid	Odor	None
Appearance	Clear	Odor Threshold	No information available
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	4.0-7.0	None known
Melting/freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	Not flammable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.1	None known
Water Solubility	Soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive Properties	Not explosive	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Not applicable.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact May cause moderate eye irritation

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
3 (trihydroxysilyl) propoyldimethyloctadecyl amonium chloride	5000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms May cause moderate eye irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization None.

Mutagenic Effects None

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
3 (trihydroxysilyl) propoyldimethyloctadecyl ammonium chloride	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.
Chronic Toxicity Carcinogenic potential is unknown.
Target Organ Effects Eyes

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

60 g/kg

ATEmix (inhalation-dust/mist)

60 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is toxic to fish. Do not allow product to enter storm drains, lakes, or streams.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this product.

Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT

NOT REGULATED.

IDG

UN-No	Not Required
Proper Shipping Name	Not Required
Hazard Class	Not Required
Packing Group	Not Required
Description	Not Required

ICAO

UN-No	Not Required
Proper Shipping Name	Not Required.
Hazard Class	Not Required
Packing Group	Not Required
Description	Not Required

IATA

UN-No	Not Required
Proper Shipping Name	Not Required.
Hazard Class	Not Required
Packing Group	Not Required
Description	Not Required

IMDG/IMO

UN-No	Not Required
Proper Shipping Name	Not Required
Hazard Class	Not Required
Packing Group	Not Required
EmS No.	Not Required
Marine Pollutant	Not Required
Description	Not Required

15. REGULATORY INFORMATION

Chemical Inventories

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

DSL/NDSL All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

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

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION. 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 eye. Call a poison control center or doctor for treatment advice

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Not applicable

16. OTHER INFORMATION

NEPA Health Hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazard 0 Flammability 0 Physical Hazard 0 Personal Protection D

Prepared By MonoFoil USA, LLC
5540 West 53rd Street Parkway
Anderson, IN 46013

Revision Date New

Revision Note New

Reference MFD010317

General 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