

SAFETY DATA SHEET

1. Identification	
Identification	Plant Shield (Oligochitosan)
Distributor	EnviRemed, LLC
Address	6408 Beach Drive, SW Ocean Isle Beach, NC 28469
Telephone	888-575-3573
Emergency Telephone	Text to 770-712-9804
Recommended Use	Agriculture

2. Hazardous Identification	
Classification of the substance or mixture	Eye irritation, Category 2B; H320 - Causes eye irritation
Hazard statement(s)	Causes eye irritation.
Precautionary statement(s) IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
Other hazards which do not result in classification	Not known

3. Composition/Information on Ingredients		
<u>Common name</u>	<u>CAS number</u>	<u>Concentration, %*</u>
Oligochitosan	9012-76-4	1 - 7%
Organic Acid	64-19-7, 77-92-9, 79-33-4 and/or 6915-15-7	4 - 40%
Filtered Water	7732-18-5	10 - 90%
* The specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.		

4. First-Aid Measures	
First-Aid Measures for accidental exposure	
Skin Exposure	Wash with soap and water
Inhalation	Remove to fresh air
Eye contact	May cause mild eye irritation. Rinse with plenty of water also under eyelid for at least 20 minutes. Remove contact lenses. Consult a physician
Ingestion	Clean mouth with water and then drink plenty of water
Medical conditions possibly aggravated by exposure	None
Notes to physician	Treat symptomatically

5. Fire-Fighting Measures	
Flash Point	>160° F
Flammability Class	Will not burn
Method Used	Closed Cup

5. Fire-Fighting Measures (Continued)	
Flammability Limits (Upper & Lower)	No Data
Extinguishing Media	Product is nonflammable
Special Fire Fighting Procedures	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing
Unusual Fire and Explosion Hazards	Product is nonflammable
Hazardous Decomposition Materials (Under Fire Conditions)	Product is nonflammable

6. Accidental Release Measures	
Evacuation Procedures and Safety	None
Containment of Spill	Follow procedure described below under Cleanup and Disposal of Spill
Cleanup and Disposal of Spill	Mop up any spilled product and discharge to sewer or flush to any disposal system
Environmental and Regulatory Reporting	None

7. Handling and Storage	
Minimum/Maximum Storage Temperatures	Store between 40° F and 120° F. Keep container closed when not in use.
Handling	Avoid localized overheating
Storage	Ship and store above 65° F. Store in tightly closed containers. Store in an area that is dry, well-ventilated; away from incompatible materials (see Section 10 • Stability and Reactivity)

8. Exposure Controls/Personal Protection	
Exposure Guidelines	No exposure limits were found for this product or any of its ingredients
Engineering Controls	Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: General area dilution/exhaust ventilation.
Respiratory Protection	Not required for properly ventilated area
Eye/Face Protection	Recommended, but not required
Skin Protection	None required
Work Practice Controls	None required

9. Physical/Chemical Characteristics			
Physical Appearance	Golden yellow clear liquid (Amber)	Odor	Characteristic mild vinegar like
Odor Threshold	Not Available	pH	2-4
Melting Point / Freezing Point Range	< 0° C (32° F)	Initial Boiling Point and Boiling Range	99° C (211° F)
Flash Point	>140° F. Closed cup	Evaporation Rate	As water

9. Physical/Chemical Characteristics (Continued)			
Flammability (solid, gas)	Non-flammable	Upper/Lower Flammability or Explosive Limits	Not Available
Vapor Pressure	As water Vapor	Density	As water (1.1)
Specific Gravity	1.00 to 1.10 at 20° C	Water Solubility	Completely Soluble
Percent Volatiles by Volume	Nonvolatile	Viscosity	300-1,500 cP

10. Stability and Reactivity	
Chemical stability	This material is stable under normal handling and storage conditions described in Section 7
Conditions to be avoided	None
Materials/chemicals to be avoided	None
Hazardous decomposition products might be expected	None
Hazardous polymerization will not occur. Avoid the following to inhibit hazardous polymerization	Not applicable

11. Toxicological Information	
Acute Eye Irritation: Toxicological Information and Interpretation	Eye - Mild eye irritation.
Acute Skin Irritation	No test data found for product
Acute Dermal Toxicity	No test data found for product
Acute Respiratory Irritation	No test data found for product
Acute Inhalation Toxicity	No test data found for product
Acute Oral Toxicity	No test data found for product
Chronic Toxicity	No test data found for product

12. Ecological Information	
Ecotoxicology Information	
Toxicity	No test data found for this product
Chemical Fate Information	Biodegradation of the test substance was initiated at day 0 and continued up until day 21. Thereafter, a plateau was reached, and this continued until the end of the test. At day 28, 48.3 % was biodegraded. Toxicity of the test substance and/or nitrification inhibitor was not observed as shown by the biodegradation percentages found, and the endogenous respiration, which was not inhibited.

13. Disposal Considerations
Dispose of in accordance with applicable municipal, provincial, state or national regulations. Not classified as dangerous according to transport regulations.

14. Transportation Information
Not classified as dangerous according to transport regulations.

15. Regulatory Information	
15.1 Inventory Status	
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y
Y = All ingredients are on the inventory	
E = All ingredients are on the inventory or exempt from listing	
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.	
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing	
15.2 Chemical Safety Assessment	
No additional information available	

16. Other Information	
Product Number	N/A
Globally Harmonized System Liability Disclaimer	<p>SDS information is provided based on OSHA's Hazardous Communication Regulation and for use of the persons required to receive this information under this regulation. EnviRemed LLC does not warrant the suitability for use of this SDS for any other material or product not specifically identified herein. EnviRemed LLC does not warrant the accuracy or authenticity of this SDS unless it has been obtained directly from EnviRemed LLC or posted or viewed on a Company website. Since the use of this material is not under EnviRemed LLC's control, each user is responsible for making their own determination as to the safe and proper handling of this material in their own particular use of this material. EnviRemed LLC makes no representation or warranty, either expressed or implied, including as to merchantability or fitness for a particular purpose.</p>