

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): UltraMannan
MANUFACTURER'S NAME: Nutra-Flo
ADDRESS: 1919 Grand Avenue
Sioux City, IA 51106
EMERGENCY PHONE: Chemtrec 1-800-424-9300 24 hrs a day
BUSINESS PHONE: 712-277-2011
DATE OF PREPARATION: May 4, 2007

2. COMPOSITION and INFORMATION ON INGREDIENTS

These products do not meet the definition of a hazardous material given in 29 CFR Part 1910.1200(OSHA). Information on this form is furnished as a customer service.

3. HAZARD IDENTIFICATION

Acute Effects of Overexposure:

Route of Entry: Inhalation, ingestion, skin and/or eye contact.
Inhalation: May cause irritation to mucous membranes of nose, throat and lungs.
Skin: Repeated contact may cause irritation
Eye Contact: Dust may cause mechanical irritation.
Ingestion: Not Applicable UltraMannan-intended for manufacturing use as an ingredient. Ingestion of excess quantities of undiluted product may cause burning sensation and gastrointestinal irritation.

Subchronic and Chronic Effects of Overexposure: No known applicable information.

Other Health Effects: People known to have allergic sensitivity to yeast should avoid handling or using this product.

4. FIRST AID and Emergency Procedures:

Eye: Flush eyes with running water. If irritation or adverse symptoms develop, seek medical attention.
Skin: Wash skin with soap and water. If irritation or adverse symptoms develop, seek medical attention.
Inhalation: Remove from exposure. If illness or adverse symptoms develop, seek medical attention.
Ingestion: If illness or adverse symptoms develop, seek medical attention.

5. FIRE and Health Data

FIRE

Flash Point (Method Used): Not Applicable
Flammable Limits (% by Volume in Air): LEL-Not Established - UEL-Not Established
Fire Extinguisher Media: Dry chemical, foam, water or carbon dioxide (CO2).
Special Fire Fighting Procedures: Not Applicable
Fire and Explosion Hazards: Materials become slippery when wet.

HEALT

Recommended Exposure Limits -	Control as a nuisance dust:	
	<u>Respirable Fraction</u>	<u>Total Dust</u>
OHSA PEL	5 mg/m ³	15 mg/m ³
ACGIH TLV	Not Established	10 mg/m ³

6. Spill, Leak, and Disposal Procedures

Precautions Required if Materials is Released or Spilled: Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contain spill and control dusts. If concentrations of dust in air is high, water fog or spray may be used to knock down dust, otherwise, avoid wetting spill. Material becomes slippery when wet. Vacuum or scoop up and place in disposal container.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations): Manage in permitted waste management facility. May also be flushed down conventional sewer system.

7. Handling and Storage Precautions

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation. Store in a closed container. Store in cool, dry well ventilated area. Avoid storage at elevated temperatures for prolonged periods of time. Bags should be kept sealed and dry.

8. EXPOSURE CONTROLS – Personal Protection Information

VENTILATION: Use adequate ventilation to control exposure below recommended levels.

RESPIRATORY PROTECTION: _ Not generally required unless needed to prevent respiratory irritation from dust

EYE PROTECTION: Goggles if airborne dust concentrations are excessive.

Skin Protection: Not applicable.

9. PHYSICAL DATA

VAPOR DENSITY: Air=1.00	NA	<u>EVAPORATION RATE (n-BuAc=1):</u>	NA
SPECIFIC GRAVITY:	H2O=1 NA	<u>FREEZING POINT:</u>	
SOLUBILITY IN WATER:	Appreciable- UltraMannan=negligible	<u>BOILING POINT:</u>	NA
VAPOR PRESSURE	NA	<u>pH:</u>	

Viscosity: Not Applicable - APPEARANCE AND COLOR: Tan Powder - HOW TO DETECT THIS SUBSTANCE (warning properties): Mild Odor

10. Reactivity Data

STABILITY: Stable

CONDITIONS TO AVOID: Heating may cause color to darken

Incompatibility (Materials to Avoid): Not Established

Hazardous Polymerization: Will not occur

Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Not Established

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: Not Established

SUSPECTED CANCER AGENT: No

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known

Toxicity to Fish and Invertebrates: Not known

Toxicity to Plant: Not known

Toxicity to Birds: Not known

13. DISPOSAL CONSIDERATIONS

RCRA Classification-Unadulterated Product as a Waste
Not Applicable

14. PROTECTION REQUIRED FOR WORK ON CONTAMINATED EQUIPMENT

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section 5 if exposure conditions warrant.

15. DOT TRANSPORTATION

Shipping Name:	Not Applicable
Hazard Class:	Not Applicable
ID Number:	Not Applicable
Packing Group:	Not Applicable
Marking:	Not Applicable
Label:	Not Applicable
Placard:	Not Applicable
Hazardous Substance/RQ:	Not Applicable
Shipping Description:	Not Applicable
Packaging References:	Not Applicable

16. REGULATORY INFORMATION

As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.