

## MATERIAL SAFETY DATA SHEET

### MANUFACTURER INFORMATION

Name: Omega Protein, Inc.  
Address: 835-B Pride Drive  
Hammond, LA 70401

Emergency Phone No: (985)345-5553  
Information Phone No: (985)345-5553

Preparation Date: 23 Feb., 2005

### PRODUCT IDENTIFICATION

Product Name: Gulf Menhaden Condensed Fish Solubles  
Atlantic Menhaden Condensed Fish Solubles  
OmegaGrow™  
OmegaGrow™ Plus  
Refined Fish Emulsion  
Neptune™ Fish Concentrate

Product Use: Animal Feed Ingredient, Organic Fertilizer

CAS Name: NA

CAS Registration No: NA

NIOSH Registry No: Not Registered

### SHIPPING INFORMATION

DOT (HAZMAT) Proper Shipping Name: None  
ID #: None

DOT Label: None

U.S. Surface Freight Classification: None

Pollutant Category: D

Group #: 43

CHRIS Code: FSO

NFPA RatingHealth Fire Reactivity Special Hazard HAZARDOUS COMPONENTS

<u>Specific Chemical Identity:</u> <u>Common Name(s)</u>	<u>CAS Reg #</u>	<u>Inclusion Rate</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Sulfuric Acid and / or	7664-93-9	3 - 5%	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Phosphoric Acid	7664-38-2	5 -8%	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

Note (1) Also contains the following:

Potassium Sorbate	24634-61-5	0.1%	None Established	None Established
Ethoxyquin, and/or	91-53-2	500 PPM	See Note Below	
PetOx	NA	500 PPM	NA	NA

Note: Less than 0.1% 6-ethoxy-1, 2 dihydro-2, 2,4 trimethyl quinoline (CAS Reg # 91-53-2) is added to retard oxidation. 6-ethoxy-1, 2 dihydro-2, 2,4 trimethyl quinoline is also known as Ethoxyquin, Santoquin and Ethyl Trimethyl Hydroquinoline.

PHYSICAL CHARACTERISTICS

Boiling Point:	220° F
Vapor Pressure (mm Hg):	unknown
Vapor Density (Air = 1):	unknown
Water Solubility:	Complete
Physical State:	Liquid
pH (1:1 w/water):	3.0 - 4.5
Specific Gravity (H <sub>2</sub> O=1):	1.17
Melting Point:	NA
Evaporation Rate (Butyl Acetate =1):	0.8
Appearance:	Viscous liquid
Color:	Brown
Odor:	Fishy

FIRE AND EXPLOSION HAZARD

Flash Point (Method): NA  
 Smoke Point NA  
 Fire Point NA  
 Flammable Limits (LEL / UEL): NA  
 Extinguishing Media: CO<sub>2</sub>, Water, Foam  
 Special Fire Fighting Procedures: None  
 Unusual Fire and Explosion Hazards: If pH exceeds 5.0 there is the possibility of formation of explosive mixture of gases. Tanks should be seasoned and well ventilated.  
 Auto Ignition Temperature: unknown  
 Auto Decomposition Temperature: unknown

REACTIVITY

Stability:  Stable  Unstable  
 Conditions to Avoid: PH above 5.0  
 Incompatibility (Materials to Avoid): Alkali, mild steel  
 Hazardous Decomposition or By Products: Ammonia, hydrogen gas, methane, hydrogen sulfide  
 Hazardous Polymerization:  May Occur  Will Not Occur  
 Conditions to Avoid: NA

HEALTH HAZARD DATA

Routes of Entry:  Inhalation  Skin  Ingestion  
 Health Hazards (Acute and Chronic): May act as a slight irritant to the skin or lungs or a mild allergen. Prolonged skin contact could result in dermatitis in sensitive individuals.  
 Carcinogenicity:  NTP?  IARC Monographs?  OSHA Regulated?  None Known  
 Signs and Symptoms of Exposure: None Known  
 Medical Conditions Generally Aggravated by Exposure: None Known  
 Emergency and First Aid Procedures: Wash with soap and water. Keep area well ventilated.

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:	Keep area well ventilated. Employ normal sanitation procedures to reduce risk. Spills produce slippery surfaces. Flush with water
Waste Disposal Method: *	Large quantities - sanitary landfill Small quantities - normal sewage disposal
Precautions to be Taken in Handling and Storing:	Non-seasoned metal should be avoided. pH should be monitored and adjusted as required. Tank contents should be circulated periodically. Tanks must be vented and purged with air before entry. Observe standard tank entry precautions.
Other Precautions:	Tanks must be well ventilated. Additional handling recommendations are available on OPI Technical Bulletin <i>GUIDELINES FOR THE STORAGE AND HANDLING OF CONDENSED MENHADEN FISH SOLUBLES</i> .

\* The disposal information contained herein cannot be warranted by Omega Protein, Inc. as correct in all cases. Because of particular or exceptional conditions or circumstances, or because of applicable federal, State, or local law, other or additional information or measures may be required or desirable. The product user may want to consult the proper state and federal authorities.

CONTROL MEASURES

Respiratory Protection:	Use self contained respirator equipment in closed systems.			
Ventilation:	<input type="checkbox"/>	Local Exhaust	<input type="checkbox"/>	Special
	<input checked="" type="checkbox"/>	Mechanical (General)	<input type="checkbox"/>	Other
Protective Gloves:	Rubber gloves are needed		Eye Protection:	Safety goggles
Other Protective Clothing or Equipment:	Gas monitoring equipment			
Work / Hygienic Practices:	Wash with soap and water			