# MATERIAL SAFETY DATA SHEET

## MANUFACTURER INFORMATION

<table>
<thead>
<tr>
<th>Name:</th>
<th>Omega Protein, Inc.</th>
<th>Emergency Phone No:</th>
<th>(504)345-0239</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>1514 Martens Drive</td>
<td>Information Phone No:</td>
<td>(504)345-5553</td>
</tr>
<tr>
<td></td>
<td>Hammond, LA 70401</td>
<td>Preparation Date:</td>
<td>4 Dec., 1997</td>
</tr>
</tbody>
</table>

## PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Gulf Menhaden Fish Meal</th>
<th>Atlantic Menhaden Fish Meal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prime Menhaden Fish Meal</td>
<td>Special Select™ Menhaden Fish Meal</td>
</tr>
<tr>
<td></td>
<td>Sea-Lac™ Ruminant Grade Menhaden Fish Meal</td>
<td></td>
</tr>
<tr>
<td>Product Use:</td>
<td>Animal Feed Ingredient</td>
<td></td>
</tr>
<tr>
<td>CAS Name:</td>
<td>Menhaden Fish Meal</td>
<td></td>
</tr>
<tr>
<td>CAS Registration No:</td>
<td>RN 97675-81-5</td>
<td></td>
</tr>
<tr>
<td>NIOSH Registry No:</td>
<td>Not Registered</td>
<td></td>
</tr>
</tbody>
</table>

## SHIPPING INFORMATION

<table>
<thead>
<tr>
<th>DOT (HAZMAT) Proper Shipping Name:</th>
<th>Fish Meal, Stabilized</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID #:</td>
<td>UN2216</td>
</tr>
<tr>
<td>DOT Label:</td>
<td>Class 9</td>
</tr>
<tr>
<td>U.S. Surface Freight Classification:</td>
<td>9</td>
</tr>
<tr>
<td>Pollutant Category:</td>
<td>NA</td>
</tr>
<tr>
<td>Group #:</td>
<td>NA</td>
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<tr>
<td>CHRIS Code</td>
<td>NA</td>
</tr>
</tbody>
</table>

* DOT shipping requirements only are applicable to this product when transported in bulk by vessel (water craft for use on water).
HAZARDOUS COMPONENTS

Specific Chemical Identity: None (see note below)

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: NA
Vapor Pressure (mm Hg): NA
Vapor Density (Air = 1): NA
Water Solubility: 15-25%
Physical State: Solid
pH (1:2 w/water): 5.5 - 6.5
Specific Gravity (H_2O=1): 0.481-0.641
Melting Point: NA
Evaporation Rate (Butyl Acetate =1): NA
Appearance: Granular
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: CO₂, Water*, Foam
Special Fire Fighting Procedures: *Water will cause product to putrefy and, eventually reheat.
Unusual Fire and Explosion Hazards: Moderate fire hazard when exposed to heat or flame. Can react with oxidizing material. Could heat and ignite spontaneously depending upon moisture and oil content.
Auto Ignition Temperature: unknown
Auto Decomposition Temperature: unknown

REACTIVITY

Stability: X Stable □ UnStable
Conditions to Avoid: Overheating, excessive moisture
Incompatibility (Materials to Avoid): Oxidizing Agents
Hazardous Decomposition or By Products: Ammonia when conditions of excess moisture are present
Hazardous Polymerization: □ May Occur X Will Not Occur
Conditions to Avoid: NA

HEALTH HAZARD DATA

Routes of Entry: X Inhalation X Skin X 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? X 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
PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case
Material is Released or Spilled:
Sweep up

Waste Disposal Method: *
Sanitary landfill or incineration

Precautions to be Taken in Handling and Storing:
Temperature should be monitored and if temperature rises above
120° F, provisions must be made for moving and/or cooling the product.

Other Precautions:
Keep the product dry and maintain sanitary condition

* 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: Dust Mask
Ventilation:
Local Exhaust
 Mechanical (General)
 Special
 Other

Protective Gloves: Necessary if allergic

Eye Protection: Protect from dust

Other Protective Clothing or Equipment: None

Work / Hygienic Practices: Wash with soap and water

The information provided herein is a compilation of known or suspected information about the materials from various sources and is offered for the benefit and convenience of product customers and handlers. The information is SPECIFICALLY NOT WARRANTED by Omega Protein, Inc. either to its completeness, correctness, sufficiency, or scientific accuracy.