

MATERIAL SAFETY DATA SHEET

MANUFACTURER INFORMATION

Name: Omega Protein, Inc.
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Preparation Date: 21 May 2013

PRODUCT IDENTIFICATION

Product Name: Gulf Menhaden Fish Meal Atlantic Menhaden Fish Meal
FAQ Menhaden Meal Special Select™ Menhaden Fish Meal
Sea-Lac™ Ruminant Grade Menhaden Fish Meal

Product Use: Animal Feed Ingredient

CAS Name: Menhaden Fish Meal

CAS Registration No: RN 97675-81-5

NIOSH Registry No: Not Registered

SHIPPING INFORMATION

DOT (HAZMAT) Proper Shipping Name: * Fish Meal, Stabilized

ID #: * UN2216

DOT Label: Class 9

U.S. Surface Freight Classification: 9

Pollutant Category: NA

Group #: NA

CHRIS Code NA

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

NFPA RatingHealth Fire Reactivity Special Hazard HAZARDOUS COMPONENTSSpecific Chemical Identity:CAS Reg #InclusionOSHA PELACGIHCommon Name(s)RateTLV

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 ₂ O=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: 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 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

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