

MSDS - Menhaden Fish Meal

Issued March 5, 2001

Section 1. Product Identification

Name: Fish Meal Stabilized

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Hazardous Ingredients

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 2.1 Ethyl Trimethyl Hydroquinoline.

Section 3. Physical Characteristics

Boiling Point: N/A

Vapor Pressure (mm Hg)

Vapor Density (Air=1): N/A

Water Solubility: 15 - 25%

Physical State: Solid

pH (1: 2w/water): 5.5 - 6.5

Specific Gravity (H2O=1): 0.481 - 0.641

Melting Point: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Appearance/Odor: Brown, Granular, Fishy Odor

Section 4. Fire and Explosion Data

Fire, Smoke, Flash Point (Method): N/A

Flammable Limits: N/A

Extinguishing Media: CO2, Water*, Foam

Special Fire Fighting Procedures: *Water will cause product to putrefy and eventually re-heat.

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

Section 5. Reactivity

Stability: Stable

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: Will not occur

Section 6. 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.

Signs and Symptoms of Exposure: None known

Medical Conditions Generally Aggravated by Exposure: None known

Emergency First Aid Procedures: Wash with soap and water

Precautions for Safe Handling and Use

Spill or Release: Sweep up

Waste Disposal Method: *Sanitary landfill or incineration

Precautions in Handling and Storing: Temperatures should be monitored and if temperature rises above 120oF, provisions must be made for moving and/or cooling the product. Keep the product dry and maintain sanitary conditions.

* Please follow all applicable Federal, Provincial and local laws for disposal of product.

Control Measures

Respiratory Protection: Dust mask

Ventilation: Local exhaust, mechanical (general)

Protective Gloves: Necessary if allergic

Work/Hygienic Practices: Wash with soap and water

Disclaimer

This information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Pestell Minerals & Ingredients makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or combination with any other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.