

**Material Safety Data Sheet**

**U.S. Department of Labor:** Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072. May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. This MSDS complies with 29CFR1910.1200, Hazard Communication Standard. No toxic chemicals subject to the reporting requirements of Section 313 of Title 40CFR 372 are present. All cultures listed on USEPA TSCA Inventory as exempt from reporting. Components not listed are non-hazardous or less than 1%.

**PRODUCT IDENTITY: AQ-4 AQUACULTURE**

**SECTION I: MANUFACTURING INFORMATION**

**MANUFACTURER:** MATERIALS SCIENCE COMPANY  
 651 Chippewa Street  
 Lumberton, SC 28358

**INFORMATION / CONTACT:** MICROBE TECH. INC.  
 1420 Tubbs Lane  
 Calistoga, CA 94515  
 877-764-2962 or 707-942-9348

**PROPER SHIPPING NAME:** AQ-4

**SECTION II - HAZARDOUS INGREDIENTS / IDENTITY / INFORMATION**

HAZARDOUS COMPONENTS:	None, Non-Toxic, No Hazardous Components	COMPOSITION	CAS #	HAZARD
GENERIC ID:	Live aquatic and soil bacteria cultures in spore form	Microbes; viable, dormant	ATCC	None
HAZARD CLASSIFICATION:	Health = 1      Fire = 0      Reactivity = 0	Fulvic / Humic Acid	68514-28-3	None
DOT SHIPPING CLASS: 50	Food Grade      Not regulated	Plant Enzymes	None	None

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point	NA	Evaporation Rate	NA	Vapor Pressure (mm Hg)	NA
Specific Gravity (H2O = 1)	1.6	(Butyl Acetate = 1)	NA	Melting Point	NA
Odor	Slight and Sweet	Solubility in Water	100%	Vapor Density (AIR = 1)	NA
Appearance	Dark Brownish Gray Powder				

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used)	N/A	UEL	N/A	Unusual Fire and Explosion Hazards	NONE
Flammable Limits	N/A	Extinguishing Media	Water, Carbon Dioxide, Dry Chemical/foam		
LEL	N/A	Special Fire Fighting Procedures	NONE	OSHA 174, Sept. 1985	

**SECTION V - REACTIVITY**

Stability	YES	Stable	YES	Hazardous	NO
Unstable	NO	Incompatibility ( <i>Materials to Avoid</i> )	NONE	Polymerization May Occur	NO
Conditions to Avoid	Strong acids, chemicals, alkali compounds, organic solvents	Hazardous Decomposition or Byproducts	NONE	Conditions to Avoid	NONE

**SECTION VI - HEALTH HAZARD DATA**

Medical Conditions	YES	Routes of entry: inhalation, skin, eyes, ingestion	Carcinogenicity	NONE
Inhalation:	YES	Inhalation of dust could irritate the respiratory tract or initiate choking	OSHA Regulated?	N/A
Skin/Eyes:	YES	Direct contact with eyes could result in irritation and/or Infection.	IARC Monographs?	N/A
Ingestion:	YES	Ingestion of large quantities may cause irritation or choking		
Signs and Symptoms of Exposure	None Expected	Potential irritation and redness of eyes and skin, allergic reaction, choking. Lungs aggravated by exposure may result inn asthmatic response. Persons in chemotherapy should consult physician	Handling bacteria products	MAYBE
Emergency and First Aid Procedures	YES	Use protective measures to avoid exposure (respirator). Flush eyes (15 minutes) and skin with water		

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps if Material is Released or Spilled: Collect and reuse. Wash off runoff will clean drains and sewers	Precautions in Handling and Storing: Store in dry and cool area, avoid dust creation
Waste Disposal Methods: Use immediately, wash to sewer, to standard landfill	Other Precautions: Follow product directions

**SECTION VIII - CONTROL MEASURES**

Dust mask. Airborne dust levels above TLV require NIOSH/MSHA respirator	YES (OSHA Approved)	Special	NO	Gloves	Non-porous gloves
Ventilation: Use sound handling practices	YES Dust control	Mechanical ( <i>General</i> )	NO	Eye Protection	Goggles, safety glasses, face shield
Local Exhaust	Filter out dust if present	Other: Wash clothing alone	YES		
Other Protective Clothing or Equipment: Non-porous coveralls or apron	Cover open wounds with clean dressing	Work/Hygienic Practices: Wash hands after use	Hygienic	* U.S.G.P.O.: 1986 - 491 - 529/45775	

The MSDS information contained within is believed to be correct and represents the current opinion of reliable experts on the use and regulation of the AQ-4 Aquiculture product. No warranty, guarantee or representation is made as to the correctness of the information stated in this AQ-4 product. The user of the AQ-4 product is the responsible party to apply all necessary safety measures to safely use this product by itself, or in combination with other products, and determine it's environmental regulatory compliance obligation under any applicable federal, state or local laws.