


Section I - Company and Contact Information

Document Number: MSDS-AD10FA100	EMERGENCY TELEPHONE: 269-552-9436
Product Description: AGT-50	ITEM# AD10FA100
7136 East N Avenue, Kalamazoo Michigan 49048	Information: 269-552-9436 -- 269-501-4165
SIGNATURE 	UPDATE: - 05/18/2018 NEXT REVIEW DATE: 5/2020

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
NO HAZARDOUS COMPONENTS Organic clay extract concentrate containing naturally occurring minerals, trace elements, amino acids, fulvic acid and humic acid	N/A	N/A	N/A	

Section III - Physical/Chemical Characteristics

Boiling Point - 95 degrees centigrade	pH = 2.8 to 3.9	Specific Gravity (H ₂ O = 1) 1.050 - 1.070
Vapor Pressure (mm Hg) - N/A - no vapor produced	TDS average: 90,000 ppm or mg/liter (9%)	Melting Point - N/A - liquid
Vapor Density (AIR = 1) - N/A - no vapor produced		Moisture Content - 91%
Solubility in Water - 100%		
Appearance and Odor - Dark Amber Liquid with a slight roasted coffee odor.		

Section IV - Fire and Explosion Hazard Data

Flash Point - N/A - not flammable	Flammable Limits - N/A	LEL - N/A	UEL - N/A
Extinguishing Media - N/A			
Special Fire Fighting Procedures:			
Unusual Fire and Explosion Hazards - NONE - - NOT FLAMMABLE			

NOT A FLAMMABLE LIQUID --

Section V - Reactivity Data

Stability -	ALWAYS STABLE	Conditions to Avoid - AVOID PROLONGED EXPOSURE TO THE AIR -- THE LIQUID EVAPORATES AND CAN LEAVE A MINERAL RESIDUE ON EQUIPMENT - NOT HARMFUL	
Incompatibility - None Discovered -			
Hazardous Decomposition or Byproducts - NONE			
Hazardous Polymerization	Will Not Occur		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? - NO Vapor to inhale - Safe for cGMP handling.	Skin? - Slightly irritating if left on the skin for more than a few hours - there have been no incidence of skin injury.	Ingestion? - Safe as a trace mineral supplement if taken as recommended. Daily maximum serving is 1 ml per 24 hours
Health Hazards (<i>Acute and Chronic</i>) - Avoid direct exposure to the eyes --			
Carcinogenicity:	NTP? - N/A - not a carcinogen	IARC Monographs? - N/A - no known carcinogenic effects	OSHA Regulated? - NO
Signs and Symptoms of Exposure - Irritated - burning eyes will result if the liquid is gotten directly into the eye - no other exposure hazards exist.			
Medical Conditions Generally Aggravated by Exposure - NONE KNOWN			
Emergency and First Aid Procedures -			
EYES: Wash eyes out with warm water until burning sensation is eliminated SKIN: Wash with warm water and soap -			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled - AGT-50 is a slight corrosive due to the low pH. Avoid prolonged contact with metallic surfaces that are not stainless steel.
Clean up spills using water and janitor mop - large spills may be safely washed down any spill drain using a hose or pressure washer. No environmental hazards are associated with AGT-50
Waste Disposal Method - no waste to dispose of
Precautions to Be taken in Handling and Storing - HANDLING: Wear FDA - USDA and OSHA approved attire - see in next section STORING: Store in FDA approved containers only -- make certain all seals are tightly locked.
Other Precautions: - USE CAUTION WHEN MANIPULATING 55 GALLON DRUMS - EACH BARREL WEIGHS APP. 600 POUNDS -- USE APPROPRIATE EQUIPMENT WITH APPROPRAITE LIFT AND SAFTEY FEATURES --

Section VIII - Control Measures

Respiratory Protection - <i>NONE REQUIRED</i>		
Ventilation: Standard	Local Exhaust: NONE	SPECIAL- treat as a food grade product follow ALL GMP guidelines.
	Mechanical - follow manufacturers mixing or blending guidelines --	Other - N/A
Protective Gloves: FDA approved gloves for liquid (slight corrosive) handling.		Eye Protection: Eye protection - use FDA approved goggles that cover the entire eye.
Other Protective Clothing or Equipment: <ol style="list-style-type: none"> Hair Net - protecting the product from contamination. Acid resistant laboratory coat or similar appropriate work attire. 		
<p>Work/Hygienic Practices: - FOLLOW ALL CGMP or GMP GUIDELINES and RULES</p> <p><u>Disease Control</u></p> <p>No person affected with, been exposed to, or is a carrier of a communicable disease, shall work in any area in which there is a possibility of contaminating finished products, raw materials or infecting others. In addition to the preceding, no person shall work who has boils, open sores, infected wounds or other potential sources of microbiological contamination until the wounds has been completely and safely covered by bandages. If an employee can't reach this protection norm, the wound will be considered as a communicable disease and should be treated as.</p> <p><u>Personal hygiene</u> - Each employee shall maintain a high level of personal hygiene</p> <p><u>Hair protection</u> - A hair net and/or beard net to restrain hair is required at all times when operating in the plant's processing areas.**Beard Nets will be required of all employees that have facial hair, other than a mustache, in Hair Net Processing area.</p> <p><u>Nails</u> - Fingernails must be kept clean and neatly trimmed: an employee with fingernails longer than ¼ cm shall worn latex finger protective or latex gloves while working. Nails polish is forbidden.</p> <p><u>Hand washing</u> - All employees must wash their hands before starting work, after each absence from work and/or any time when hands become dirty. Hand Washing signs must be posted in every bathroom.</p> <p>Note: New latex gloves are required in clean room and should be discarded after use. 1. <u>Jewelry</u> - No jewelry is allowed within the processing areas of the plant. Jewelry is a potential source of extraneous contamination, microbial contamination and potential safety hazard. Watch should be removed. 2. <u>Clothes</u> - Clothing must be clean and in good repair (no holes). Short, skirt, tank tops or belly top should not be worn on processing area. Zippers or snaps are preferred over buttons on clothing. 3. <u>Shoes</u> Only securely shoes should be worn. Shoes should be low-heeled, of leather/vinyl material with good water traction (non-slip). 4. <u>Food and beverages</u> No food, beverages (except personal and identified bottle of water), chewing gum and candies are allowed anywhere in the plant except the cafeteria. For safety reasons: toothpicks, matchsticks and/or similar objects shall not be placed in the mouth. Pencils, cigarettes and/or other objects held behind ears or in chest pocket is forbidden. Never bring glass object in processing area. 5. Avoid using hands for unsanitary or unsightly practices, which may contaminate the product. Such usage includes: touching face. Wiping forehead. Placing fingers in mouth, nose or ears. Scratching head or body. 6. Avoid uncovered coughing or sneezing. Wash hands or sanitize before restart working. Leave production area if excessive coughing or sneezing cannot be control.</p>		

* U.S.G.P.O.: 2012 - 491 - 529/45775