

MATERIAL SAFETY DATA SHEET

MicroScience

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

AgXplore International, Inc.
P.O. Box 638, 7035 State Hwy D
Parma, MO 63870

PRODUCT NAME: MicroScience

EPA REG. NO: Not Applicable

CHEMICAL NAME: Humic Acid Amendment

CHEMICAL FAMILY: Liquid Fertilizer

Hotline Numbers: National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time; Outside of these times call your poison control center at 1-800-222-1222.

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN-CAUTION May be harmful if swallowed or absorbed through skin. May cause eye or skin irritation. Avoid contact with skin, eyes, and clothing. Avoid inhalation of spray mist. Wash thoroughly with soap and water after handling. Read and follow all precautionary statements on the accompanying pesticide label(s).

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Humic Acid	Proprietary	1415-93-6	Not Listed
Zinc Sulfate		7446-19-7	
Manganese Sulfate		7785-87-7	
Boric Acid		10043-35-3	

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contacts lenses, if present, after the first 5 minutes then continue rinsing eye. Call a poison control center doctor for treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If Swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT have the product container or label with you when calling a poison control center or doctor.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/ Test Method): Not established

FLAMMABLE LIMITS (LFL & UFL): Water Solution

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Water

HAZARDOUS COMBUSTION PRODUCTS: Toxic fumes may be emitted in a fire situation.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece. Full fire fighting turn-out gear (Bunker gear).

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of leak or spill, contain material and dispose as waste. Do not contaminate any body of water. Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state and federal regulations for proper disposal. **NOTE:** Prevent spilled material from flowing onto adjacent land, or into municipal sewers and open bodies of water. Always wear proper protective equipment when working with the product.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in a cool, dry place away from children and animals. Shake well before using. Keep tightly closed. Do not contaminate water, foodstuffs, feed or seed by storage and disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: If needed, use MSHA-NIOSH approved respirator for organic vapors.

EYE PROTECTION: Wear chemical goggles or shielded safety glasses when handling and mixing product.

SKIN PROTECTION: Wear protective clothing appropriate to the label of the product(s) in the tank mix and follow the most restrictive requirements.

Personal Protective Equipment (PPE): The following are suggested as general safety equipment; Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer’s instructions for cleaning/maintaining PPE. If not such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark Liquid, Earthy Odor

SOLUBILITY: Soluble **pH:** 6.6-7.5

SPECIFIC GRAVITY (Water=1): 1.09

BULK DENSITY: 9.08 lb per/gal

VAPOR PRESSURE: Not established

BOILING POINT: 212°F

PERCENT VOLATILE (by volume): Not established

EVAPORATION RATE: Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None specifically noted.

IMCOMPATIBILITY: None specifically noted, if incompatibility is expected perform a jar test prior to full scale mixture.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes if excessively heated.

11. TOXICOLOGICAL INFORMATION-Based on similar formulation

Acute Oral LD₅₀: Not Determined

Acute Dermal LD₅₀: Not Determined

Eye Irritation: Slightly irritating

Skin Irritation: Repeated exposure may cause irritation

Inhalation LC₅₀: Not Determined

Skin sensitization: Not Determined

Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product not labeled for use in aquatic sites.

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13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Not regulated by DOT.

DOT HAZARD CLASS: None

UN NUMBER: None

DOT PACKING GROUP: None

DOT PRIMARY/SECONDARY LABEL: None

DOT PRIMARY/SECONDARY PLACARD: None

15. REGULATORY INFORMATION

NFPA RATINGS: Least=0 Slight=1 Moderate=2 High=3 Severe=4

Ratings for this product: Health – 1 Flammability – 0 Instability – 0 Special Hazards – None Specified

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release Pressure N
Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not Listed

CA Proposition 65: Not Listed

16. OTHER

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