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MATERIAL SAFETY DATA SHEET

GENERAL HYDROPONICS SUBCULTURE M™

9/19/08

SECTION 1. MATERIAL IDENTIFICATION

Product Name: General Hydroponics SubCulture M™

General Use: A beneficial auxiliary soil and plant substance

Manufactured by: General Hydroponics, 3789 Vine Hill Road, Sebastopol CA 95472.
(707) 824-9376 Fax: (707) 824-9377

For Chemical Emergency

Spill Leak Fire Exposure or Accident:

Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients: A proprietary blend of beneficial endomycorrhizal and ectomycorrhizal propagules, humic & fulvic acids, seaweed extracts, and vitamins. The product contains less than 1% of Vitamin B1 (Thiamine), Vitamin C (Ascorbic acid), and Vitamin E (a-tocopherol).

Exposure Limits: Some of the materials in SubCulture M™, when inhaled in a powder form, may be irritants to the upper respiratory tract. OSHA has established a PEL for an eight-hour time weighted average for particulates not otherwise regulated of 10-mg/m³ total dust, or 5 mg/m³ (respirable fraction). ACGIH has established a 10 mg/m³ eight-hour time weighted average threshold limit value, or 3 mg/m³ (respirable fraction) for exposure to chemicals in this category. When these materials are in aqueous solution and are not aerosolized, they are not an inhalation hazard.

SECTION 3. HAZARDS IDENTIFICATION

*** Emergency Overview ***

General Hydroponics SubCulture M™ is a black coarse powder with slight ammonia odor. When inhaled it may be irritating to the respiratory system.

Potential Health Effects

Primary Entry Routes: Inhalation

Target Organs: Lungs

Ingestion: Unknown

Eye: Irritation

Skin: None

Inhalation: Can be irritating to the respiratory system

Carcinogenicity: unknown

Medical Conditions Aggravated by Long- Term Exposure: Unknown

Chronic Effects: Not known

Other: Not known

SECTION 4. FIRST AID MEASURES

Inhalation: Remove exposed person to fresh air and support breathing, if necessary. Consult a physician if respiratory distress continues.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Contact a poison control center. Unless the poison control center advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water, then induce vomiting.

Eye Contact: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

Skin Contact: Wash exposed area with soap and water. For reddened or blistered skin, consult a physician.

After first aid: Get appropriate community medical support.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point: Unknown

Auto-ignition Temperature: Unknown

LEL: Unknown

Flammability Classification: May char or smolder if exposed to fire; will not burn.

Burning Rate: Not flammable

Extinguishing Media: Use dry chemical, carbon dioxide, water spray, fog, or foam.

Unusual Fire or Explosion Hazards: Container may explode in heat of fire.

Hazardous Combustion Products: Unknown

Fire-Fighting Instructions: Do not release run-off from fire control methods to sewers or waterways.

Fire Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures: Avoid dispersal in air. Small amounts can be diluted and flushed into a sewer. Larger amounts should be carefully swept up or vacuumed with a HEPA vacuum and held for reclamation or disposal.

Regulatory Requirements: None of the ingredients in General Hydroponics SubCulture M™ meet the definition of "Hazardous Chemical" 29 CFR 1910.120

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid inhalation of product. Wear an appropriate NIOSH-approved respirator for protection against dusts where dust levels are excessive. Respirator usage must be in accordance with OSHA requirements (29 CFR 1910.134).

Storage Requirements: No special requirements

Regulatory Requirements: Follow applicable OSHA regulations

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

Administrative Controls: Avoid breathing dust.

Respiratory Protection: If this product is used as directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: No special clothing is required.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: powder

Specific Gravity: 0,8

pH: 7.0 @10% dispersion in water

Appearance and Odor: : Black coarse powder with slight ammonia odor

Vapor Pressure: Not applicable

Water Solubility: Insoluble, but suspendable with agitation.

Other Solubility's: Unknown

Boiling Point: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers, under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong alkalis will release ammonia fumes.

Conditions to Avoid: Contact with strong oxidizers

Hazardous Decomposition Products: Ammonia may form if product is strongly heated or oxidized.

SECTION 11. TOXICOLOGICAL INFORMATION

Not believed to be toxic

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Unknown

Environmental Fate: Not expected to be significant

Environmental Degradation: Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Follow Federal, State, and local regulations.

SECTION 14. TRANSPORTATION INFORMATION

DOT Transportation Data (49 CFR 172.101): Not listed

SECTION 15. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 16. OTHER INFORMATION

General Hydroponics SubCulture M™ is a plant nutrition product. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

General Hydroponics provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product.