

MATERIAL SAFETY DATA SHEET

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FOR EMERGENCY CALL-CHEMTREC-DAY OR NIGHT 800-424-9300 or OUTSIDE USA 202-483-7616 COLLECT

SECTION 1 IDENTIFICATION

Material Name: MICROBE-LIFT/Montmorillonite Clay

Chemical Family: Calcium Bentonite (CAS 1302-78-9)

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

This material contains crystalline silica as quartz (CAS 1 4808-60-7). Crystalline silica in the respirable range is present at approximately 2% (Wt. %). The OSHA Permissible Exposure Limit (PEL) and the ACGIH Threshold Limit Value (TLV) concentration limit of 0.1 mg/m³ is not approached in normal product use (time weighted averages).

SECTION 3 PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Not Applicable

Specific Gravity: 2.45

Vapor pressure (mm Hg): Not Applicable

Melting Point: Not Applicable

Vapor density (air=1): Not Applicable

Evaporation Rate (Butyl Acetate = 1): Not applicable

Solubility in water: Insoluble

Appearance and Color: Cream to tan, odorless

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

No fire or explosion hazard with this material.

SECTION 5 REACTIVITY DATA

Stability: Stable

Avoid: Not Applicable

Incompatibility: In contact with turpentine, hydrofluoric acid, vegetable oil, or other unsaturated organic compounds, heat may be generated.

Hazardous decomposition or by-products: None

Hazardous polymerization: Will not occur

SECTION 6 HEALTH HAZARD DATA

Routes of Entry: Inhalation - Yes
Skin - No
Ingestion - Yes
Eyes - No

Effects of overexposure: Inhalation causes irritation of the respiratory tract. Repeated inhalation of excessive concentrations of any dust, including this material, may cause lung injury. Long-term exposure to excessive dust concentrations may cause progressive pulmonary fibrosis (silicosis) due to crystalline silica (quartz).

Skin Contact: No adverse effects.

Ingestion: No adverse effects. Physician should be contacted if large amounts ingested.

Eyes: Mechanical irritation if exposed to large amounts.

Carcinogenicity: NTP - No
IARC - Yes
OSHA - No

IARC has placed crystalline silica in Group 2A (probable) based upon limited evidence. **Aquatic Planting Media**, like other naturally occurring minerals, contains crystalline silica.

SECTION 7 SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation: Coughing, wheezing, pulmonary discomfort.

Eyes: Mechanical irritation.

Medical conditions generally aggravated by exposure: May aggravate existing medical conditions, such as asthma and inflammatory or fibrotic lung disease.

Emergency and First Aid Procedures:

Eyes: Flush with clear water – 15 minutes

Ingestion: If large amounts, call physician.

SECTION 8 SPECIAL PROTECTION INFORMATION

Steps to be taken in event material is released or spilled: Sweep or vacuum; place in containers or closed trucks.

Waste Disposal Method:

Unused material may be disposed of in sanitary landfill.

Precautions to be taken in handling and storing: Store in sealed containers. To prevent respirable dust from contaminating air, use adequate ventilation and dust collection.

Other procedures: If used in edible oil bleaching, spent clay mixed with oil may be combustible in air. Use nitrogen or steam filter press purge methods, not air. Cover spent clay with water prior to waste disposal.

SECTION 9 CONTROL MEASURES

Respiratory Protection: NIOSH – or MSHA – approved dust respirator if excessive dust is generated.

Ventilation: Local exhaust as necessary. Vent to dust collection system.

Protective Gloves: Not applicable.

Eye Protection: Safety glasses with side shields.

Work/Hygiene Practices: Avoid excessive dust. Use with adequate ventilation.

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