



MATERIAL SAFETY DATA SHEET

Trade Name: **Micro-Lite™**

Revision Date: 3/27/08

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: MICRO-LITE
Chemical Family: Ceramic Microspheres
Emergency Telephone (24 hr.): (ChemTrec) 800-424-9300
Supplied by: MASI Technologies, LLC
P.O. Box 81127
Lafayette, LA 70598-1127
Tel. 337-268-5444/866-494-5444
Fax 337-264-9493
www.masitech.com

Revision Number: 1

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Wt. %
Titanium dioxide	13463-67-7	0.1-1
Silica, crystalline, quartz	14808-60-7	1-5
Aluminum Oxide	1302-74-5	25-35
Silica, amorphous	7631-86-9	55-65

3. PHYSICAL DATA

Appearance: Light gray to off-white powder
Solubility in Water @ 20°C (wt. %): Insoluble
Specific Gravity (H₂O=1): 0.6-0.8
pH: Not Determined

4. REACTIVITY DATA

Stable: X **Unstable:**
Hazardous Combustion or Decomposition Products: None known
Incompatibility (materials to avoid): Strong oxidizers Hydrofluoric acid Manganese Trioxide. Chlorine trifluoride.
Hazardous Polymerization: Not Applicable

5. FIRE AND EXPLOSION DATA

Flash Point (method used): Not Determined
Auto Ignition Temperature: Not Determined
Flammable Limits in Air % By Volume: **Lower:** Not Determined **Upper:** Not Applicable
Special Fire Fighting Procedures: No specific fire fighting procedure
Extinguishing Media: Use extinguishing media appropriate for surrounding fire. This material is not combustible.

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6. EMERGENCY AND FIRST AID PROCEDURES

Ingestion:	Do not induce vomiting. Drink two glasses of water. Call a physician immediately.
Inhalation:	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Skin:	Remove contaminated clothing. Wash skin with water, using soap if available. Get medical attention if any discomfort continues.
Eye:	In case of contact, immediately flush with plenty of water for at least 15 minutes and get medical attention if irritation persists.

7. HEALTH HAZARD INFORMATION

Emergency Overview:	CAUTION! MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. This product is a light gray to off-white powder.
OSHA Permissible Exposure Limit:	Silica, crystalline, quartz 14808-60-7
ACGIH Threshold Limit Value:	None listed for any component
Primary Route(s) of Exposure:	Skin
Acute Effects of Overexposure:	
Eye:	May irritate eyes
Skin:	May be irritating to the skin
Inhalation:	May be irritation to respiratory tract if inhaled
Ingestion:	May cause gastric distress, nausea and vomiting if ingested.
Chronic Health Hazards:	Not determined
Listed as Carcinogen or Potential Carcinogen:	Yes
Cancer comments:	ATTENTION! CANCER HAZARD. CONTAINS CRYSTALLINE SILICA WHICH CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure. IATC Monographs, Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or cristobalite from occupational sources causes cancer in humans. IARC Classification Group I.
Principle Routes of Exposure:	Inhalation. Dermal – skin. Eyes.
Target Organ Effects:	Respiratory Systems. Lungs. Skin. Eyes.
Signs and Symptoms:	Particulates may cause mechanical irritation to the eyes, nose, throat and lungs. Particulate inhalation may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma. Dermatitis and asthma may result from short contact periods.
Medical Conditions Aggravated by Exposure:	Respiratory conditions

8. SPILL, LEAK AND DISPOSAL PROCEDURES

In Case of Spill or Leak:	Avoid the generation of dust. Sweep, vacuum or shovel and place into closable container for disposal. Cover and move the containers. Flush the area with water. Repackage or replace if possible.
Disposal Method:	Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal.

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Waste Management: Under RCRA, it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty container retain residues. All labeled precautions must be observed.

Environmental Precautions: Store at room temperature in dry, well ventilated area. Keep in original container.

9. PROTECTION INFORMATION

Respiratory Protection: Use at least a NIOSH-approved N95 half-mask disposable or reuseable particulate respirator. In work environments containing oil mist/aerosol, use at least NIOSH-approved P95 half-mask disposable or reuseable particulate respirator. For exposure exceeding 10 x PEL use a NIOSH-approved N100 particular respirator.

Skin Protection: Wear appropriate clothing to prevent repeat or prolonged skin contact. Chemical resistant gloves made of: Impermeable material such as: Neoprene, nitrile, polyethylene or PVC.

Eye Protection: Wear dust resistant safety goggles where there is a danger of eye contact.

General Hygiene Considerations: Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination.

10. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Avoid handling causing generation of dust. Wear full protective clothing for prolonged exposure and/or high concentrations. Wash thoroughly after handling. Provide good ventilation. Mechanical ventilation or local exhaust ventilation is required. Store at room temperature in dry, well ventilated area. Keep in original container.

11. REGULATORY INFORMATION

FEDERAL EPA

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:, Section 311 and 312, requires reporting to certain authorities of hazardous chemicals under the Occupational Safety and Health Act of 1970 (29 CFR 1910.1200). This product should be considered as having Acute Health Effects.

Ingredient	CAS No.	TSCA	DSL	NDSL	EINECS	AICD
Titanium dioxide	13463-67-7	Listed	Listed	Not Listed	N/D	N/D
Silica, crystalline, quartz	14808-60-7	Listed	Listed	Not Listed	Listed	Listed
Aluminum Oxide	1302-74-5	Listed	Listed	Not Listed	N/D	N/D
Silica, amorphous	7631-86-9	Listed	Listed	Not Listed	Listed	Listed

12. SHIPPING REGULATIONS

U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name (49 CFR 172.101-102): Not regulated
Hazard Classification (49 CFR 172.101-102): None
Labels Required (49 CFR 172.101-102): None
Placards Required (49 CFR 172.504): None
Poison Constituent (49 CFR 172.203(k)): None

13. OTHER INFORMATION

The following sections have been revised: 1

Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.