



# SAFETY DATA SHEET

## M/M Grade 501

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** 22013  
**Product Name:** M/M Grade 501  
**Manufacturer Information**  
**Company Name:** Crystex Composites, LLC -Mykroy/Mycalex Ceramics  
125 Clifton Blvd.  
Clifton, NJ 07011  
**Emergency Contact:** Juan Saenz (973)779-8866  
**Information:** Juan Saenz (973)779-8866  
**Web site address:** <http://crystexllc.com>  
**Email address:** [jsaenz@crystexllc.com](mailto:jsaenz@crystexllc.com)

### 2. HAZARDS IDENTIFICATION

GHS Classification	Placard	Key word	GHS hazard phrase
Respiratory Sensitization, Category 1B	Health hazard	Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### GHS Hazard Phrases

Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### GHS Precaution Phrases

Use only outdoors or in a well-ventilated area.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
In case of inadequate ventilation, wear respiratory protection .

#### GHS Response Phrases

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

#### GHS Storage and Disposal Phrases

Dispose of contents/container to unregulated waste.

#### Target Organs

Cardiovascular system, Eyes, Gastrointestinal System, Heart, Lungs, Respiratory system, Muscles, Skin.

#### Potential Health Effects (Acute and Chronic)

Mica is not listed as a carcinogen by OSHA, NTP, or IARC. However, IARC concludes that there is limited evidence of carcinogenicity of crystalline silica to humans.

Excessive inhalation of dusts may cause lung injury with symptoms including shortness of breath and reduced pulmonary function.

Persons with pre-existing respiratory disorders may be at an increased risk from exposure.

#### Inhalation

Inhalation of this material, particularly dust, may cause upper respiratory and mucous membrane irritation.

Even though synthetic mica (fluorophlogopite) contains fluorine ions, these ions are unlikely to leach out of formulation due to the high heat used in manufacturing process.

#### Skin Contact

Even though fluorophlogopite particles are large and insoluble in water, it may cause drying of the skin.



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### Eye Contact

Contact may cause mechanical irritation with redness, tearing and pain.

### Ingestion

If ingestion occurs, muscle spasm, slow pulse, extra systoles, hyperkalemia may occur.

### Medical Conditions Generally Aggravated By Exposure

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Chemical Name)	CAS #	Concentration
1. MICAi	12001-26-2	36 %
2. Frits, chemicals	65997-18-4	44 %
3. Potassium fluorosilicate	16871-90-2	No Data.
4. Aluminum oxide	1344-28-1	20 %

## 4. FIRST AID MEASURES

### Emergency and First Aid Procedures

If exposure occurs, move to fresh air. If dust enters eyes, flush immediately with clean water for 15 minutes. Call a physician

### In Case of Inhalation

If an adverse reaction is observed or irritation develops remove the person from source of exposure to fresh air. If symptoms persist get medical attention.

### In Case of Skin Contact

Wash the exposed skin with soap and water. If irritation or rash develops get medical attention .

### In Case of Eye Contact

If dust enters the eye, flush immediately with clean water for 15 minutes

### In Case of Ingestion

Clear material from mouth. If large amounts of material are swallowed seek medical attention. No harmful effects are expected from a small ingestion.

### Signs and Symptoms Of Exposure

Signs and symptoms of exposure include upper respiratory irritation, gastrointestinal irritation, muscle spasm, extra systoles, bradycardia (slow pulse), hypokalemia (low potassium), skin and eye irritation, burns

## 5. FIRE FIGHTING MEASURES

### Flash Pt:

### Explosive Limits:

LEL:

UEL:

### Autoignition Pt:

### Fire Fighting Instructions

Wear positive pressure, self contained breathing apparatus for fire fighting. Use structural fire fighting clothing.

### Flammable Properties and Hazards

### Suitable Extinguishing Media

This material is not flammable or combustible but rather becomes molton. Use any media appropriate for the surrounding fire, water fog, carbon dioxide, foam or dry chemical..

### Unsuitable Extinguishing Media

## 6. ACCIDENTAL RELEASE MEASURES

### Steps To Be Taken In Case Material Is Released Or Spilled

Wear appropriate protective clothing and equipment. Sweep or vacuum up, avoiding the creation of airborne dust, and collect in a suitable container for disposal. Dust collectors may be used as well.



**Protective Precautions, Protective Equipment and Emergency Procedures**

Use a NIOSH approved dust/mist respirator if dust is created

**7. HANDLING AND STORAGE**

**Precautions To Be Taken in Handling**

Avoid generating and breathing dust. Avoid eye contact. Use with adequate ventilation. If clothing becomes contaminated, remove and launder before reuse. Wash thoroughly before eating and drinking.

Food, beverages and smoking materials should not be in the work area

**Precautions To Be Taken in Storing**

Store in a dry area away from food and feed products. Avoid dust formation.

**Other Precautions**

Mica is not listed as a carcinogen by OSHA, NTP, or IARC. However, IARC concludes that there is limited evidence of carcinogenicity of crystalline silica to humans.

Excessive inhalation of dusts may cause lung injury with symptoms including shortness of breath and reduced pulmonary function.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. MICAi	12001-26-2	706 ppm/20 mppcf	3 mg/m3 (R)	
2. Frits, chemicals	65997-18-4			
3. Potassium fluorosilicate	16871-90-2	2.5 mg/cubic meter		
4. Aluminum oxide	1344-28-1	15 (dust); 5 (resp.) mg/m3	10 mg/m3 (E)	

**Respiratory Equipment (Specify Type)**

For operations where the exposure limit may be exceeded and dust is generated, a NIOSH approved high efficiency particulate respirator is recommended. Equipment selection depends on contaminants type and concentration. Select in accordance with 29CFR1910.134 and good industrial hygiene practice.

**Eye Protection**

Normal eye protection should be employed for plant operations. For dusty operations goggles may be required.

**Protective Gloves**

**Other Protective Clothing**

**Engineering Controls (Ventilation etc.)**

Keep area well ventilated

**Work/Hygienic/Maintenance Practices**

Wash hands and face thoroughly after exposure

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical States:</b>	<input type="checkbox"/> Gas	<input type="checkbox"/> Liquid	<input checked="" type="checkbox"/> Solid
<b>Melting Point:</b>	1000.00 C		
<b>Boiling Point:</b>			
<b>Specific Gravity (Water = 1):</b>	2.6		
<b>Density:</b>	NA		
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA		
<b>Vapor Density (vs. Air = 1):</b>	NA		
<b>Evaporation Rate:</b>	NA		



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**Solubility in Water:** None  
**Percent Volatile:**  
**Saturated Vapor Concentration:** NA  
**Viscosity:** NA  
**pH:** NA  
**Appearance and Odor**  
Brown and colorless

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability**  
NA  
**Incompatibility - Materials To Avoid**  
NA  
**Hazardous Decomposition Or Byproducts**  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions**  
NA

### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information

This product is composed of synthetic clay minerals which are not acutely toxic by ingestion, inhalation or dermal contact.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. MICAi	12001-26-2				
2. Frits, chemicals	65997-18-4				
3. Potassium fluorosilicate	16871-90-2				
4. Aluminum oxide	1344-28-1			A4	

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### 12. ECOLOGICAL INFORMATION

#### Results of PBT and vPvB assessment

NA

#### Persistence and Degradability

NA

#### Bioaccumulative Potential

NA

#### Mobility in Soil

NA

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method

Disposal of material should be done in compliance with all local, state, provincial and federal laws and regulations.

Dispose of contents/containers to unregulated waste.



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Printed: 07/01/2014  
Revision: 06/28/2014  
Supersedes Revision: 06/05/2014

### 14. TRANSPORT INFORMATION

**DOT Proper Shipping Name**

### 15. REGULATORY INFORMATION

No data available.

### 16. OTHER INFORMATION

When machining use water to collect dust and keep tools cool

**Revision Date:** 06/28/2014