



SAFETY DATA SHEET

M/M Grade 451

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 22015
Product Name: M/M Grade 451
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

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.



SAFETY DATA SHEET

M/M Grade 451

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. Muscovite mica	1318-94-1	52 %
2. Frits, chemicals	65997-18-4	48 %
3. Potassium fluorosilicate	16871-90-2	No Data.

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. Muscovite mica	1318-94-1			
2. Frits, chemicals	65997-18-4			
3. Potassium fluorosilicate	16871-90-2	2.5 mg/cubic meter		

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 contaminates 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

Physical States:	[] Gas [] Liquid [X] Solid
Melting Point:	875.00 C
Boiling Point:	
Specific Gravity (Water = 1):	2.5
Density:	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	None
Percent Volatile:	
Saturated Vapor Concentration:	NA



SAFETY DATA SHEET

M/M Grade 451

Viscosity: NA
Formula: .
pH: NA

Appearance and Odor
dark green and odorless

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. Muscovite mica	1318-94-1				
2. Frits, chemicals	65997-18-4				
3. Potassium fluorosilicate	16871-90-2				

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.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name



SAFETY DATA SHEET

M/M Grade 451

Page: 5

Printed: 07/01/2014

Revision: 06/28/2014

Supersedes Revision: 06/05/2014

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