



MATERIAL SAFETY DATA SHEET

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1-613-996-6666 – CANUTEC – Transportation Emergency
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MICA

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: MICA
Chemical Family: Magnesium Potassium Silicate
WHMIS Classification: D2A
Workplace Hazard: Potential Carcinogen, free silica

Product Use: Lost circulation material
TDG Classification: Not Regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Quartz; crystalline silica	0.1 – 2.0	14808-60-7	Not available	Not available
Mica	99-100	12001-26-2	Not available	Not available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause mechanical irritation and/or damage to the eyes. May cause gastrointestinal irritation, nausea and diarrhea if ingested. May cause irritation to the upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated contact may cause skin irritation in some individuals. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Chronic inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease.

Exposure limits: ACGIV-TLV Mica 3mg/m³,
Quartz 0.025 mg/m³

Irritancy of product: May cause mechanical irritation and/or damage to the eyes. May cause gastrointestinal irritation, nausea and diarrhea if ingested. May cause irritation to the upper respiratory tract.

Sensitization to product: Not applicable

Carcinogenicity: Mica is not listed by ACGIH, IARC, NTP or OSHA. Crystalline silica, when inhaled from occupational sources, is considered as a human carcinogen by IARC (Class 1) and by NTP. ACGIH classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Reproductive toxicity: No information available

Teratogenicity: No information available

Mutagenicity: Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.

Name of toxicological synergistic products: No information available



SECTION IV: FIRST AID MEASURES

Skin contact: If irritation occurs, or when shift ends, wash with soap and water until clean. If irritation persists, obtain medical attention.

Eye contact: Flush with gently flowing warm water until particles are removed. If irritation persists, obtain medical attention.

Inhalation: Move to area free from dust. If breathing difficulties, or distress, continue obtain medical attention.

Ingestion: Give large quantity of water and induce vomiting. Keep head below hips during vomiting to prevent aspiration. Obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: Amber, thin, flaky powder, no odour

Odour threshold: Not applicable

Specific gravity: 2.7 – 2.9

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: Not applicable

Co-efficient of water/oil distribution: Insoluble in water.



SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not flammable

Means of extinguishing: Use media suitable for surrounding materials and packaging.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Avoid strong acids and alkalies

Conditions of reactivity: Not known

Hazardous decomposition products: None known



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved dust masks or respirators for silica bearing dust. Safety glasses or goggles recommended.

Specific engineering controls: Use local exhaust ventilation, process enclosure or other engineering controls to maintain PEL's/TLV's Ensure eyewash station and emergency shower are available.

Procedures for leak/spills: Avoid breathing dust; wear an approved respirator. Vacuum up, if possible, to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

Handling procedures and equipment: Avoid creating dust. Avoid breathing dust; wear an approved respirator. Practice reasonable caution and personal cleanliness. Avoid eye contact. Launder contaminated clothing before reuse.

Storage requirements: Store in cool, dry area. Empty packages contain residual hazardous material and should be handled as if full.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: December 3, 2008

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.