



# MATERIAL SAFETY DATA SHEET

#1700, 407 2<sup>ND</sup> STREET S.W., CALGARY, ALBERTA T2P 2Y3  
**TELEPHONE: (403) 269-2242** FAX: (403) 269-2251  
1-613-996-6666 – CANUTEC – Transportation Emergency  
1-888-243-9771 – ChExSS – Chemical Exposure

## CoreMix

### SECTION I: IDENTIFICATION OF PRODUCT

**Product Name:** COREMIX  
**Chemical Family:** Blend  
**WHMIS Classification:** D2A  
**Workplace Hazard:** Potential carcinogen; may contain crystalline silica

**Product Use:** Tar sands coring fluid additive  
**TDG Classification:** Not regulated  
**Packaging Group:** Not applicable  
**PIN:** Not applicable

### SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD <sub>50</sub> (Species/Route)	LC <sub>50</sub> (Species/Route)
Crystalline silica,	0.1-1.0	14808-60-7	Not available	Not available
quartz	0.0-0.1*			

\* Concentration of crystalline silica in a series of naturally occurring products will vary from source to source. It was not detected on some samples (<0.1% w/w); therefore two ranges are being disclosed.

### SECTION III: TOXICOLOGICAL PROPERTIES

**Route of entry:**  Skin  Eye Contact  Inhalation  Ingestion

**Effects of acute exposure:** Mechanical irritation to the eyes may occur. No toxic effects expected if ingested. Dust may cause respiratory tract irritation.

**Effects of chronic exposure:** May be irritating to the skin upon long-term contact. Prolonged, or repeated contact may irritate skin in some individuals.. This product may contain respirable crystalline quartz: Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation may cause irritation of the nose, throat and respiratory passages. Long-term 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:** ACGIH-TLV - 0.05 mg/m3 respirable

**Irritancy of product:** May cause irritation to the eyes, respiratory tract and skin.

**Sensitization to product:** Not available

**Carcinogenicity:** This product is not listed by IARC, NTP, OSHA or ACGIH. However, this product could contain crystalline silica which when inhaled in the form of quartz from occupational sources is carcinogenic to humans: IARC has concluded that this chemical is carcinogenic to humans (Group 1); ACGIH has designated this chemical as a suspected human carcinogen (A2), and; NTP has listed this chemical as a known human carcinogen.

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

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



Name of toxicological synergistic products: Not available

#### SECTION IV: FIRST AID MEASURES

**Skin contact:** Wash with soap and water. Seek medical attention if irritation persists. Launder contaminated clothing before reuse.

**Eye contact:** Remove contact lenses; flush eyes with water until particles are removed. Consult a physician if necessary.

**Inhalation:** Move to fresh air. Apply oxygen or apply artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth. Immediately dilute by drinking large quantities of water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing victim.

#### SECTION V: PHYSICAL DATA

**Physical state:** Solid.

**Appearance and odour:** Light tan powder; little odour

**Odour threshold:** Not determined

**Specific gravity (°C):** 0.9

**Vapor pressure (mmHG):** Not applicable

**Vapor density (Air=1):** Not applicable

**Evaporation rate:** Not applicable

**Boiling point (°C):** Not determined

**Freeze/Melting point (°C):** Not determined

**pH (%):** 7-9

**Co-efficient of water/oil distribution:** Not determined



## SECTION VI: FIRE AND EXPLOSION DATA

**Conditions of flammability:** Not flammable

**Means of extinguishing:** Use media suitable for surrounding materials.

**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 Hazards:** Dust explosions may occur when finely divided particles are mixed with air in the presence of an ignition sources. Material becomes very slippery when contacted with water.

## SECTION VII: REACTIVITY DATA

**Chemically unstable (conditions):** Stable

**Product incompatible with:** Strong oxidizing agents and strong acids. Avoid creating dust clouds.

**Conditions of reactivity:** Contact with strong acids and oxidizing agents.

**Hazardous decomposition products:** Oxides of carbon and oxides of sulphur.



## SECTION VIII: PREVENTATIVE MEASURES

**Personal protective equipment:** NIOSH approved dust mask or respirator, rubber gloves and safety glasses or goggles Other protective equipment as appropriate to prevent contact with body are recommended.

**Specific engineering controls:** General mechanical ventilation.

**Procedures for leak/spills:** Use appropriate safety equipment. Avoid creating dust clouds. Sweep up spill. Collect uncontaminated material for repackaging. Collect contaminated material for disposal in an approved container for disposal. Wash spill area with water.

**Waste disposal:** Dispose/landfill 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 eye and skin contact. Wear protective clothing. Wash thoroughly after handling. Use caution when opening unvented containers of water solutions as microbial activity may cause pressure accumulation.

**Storage requirements:** Store in a dry area away from incompatibles. Keep sealed until ready to use to prevent caking from moisture pick-up. Avoid creating dust clouds during use. Empty packaging contains residual hazardous material, handle as if full.

**Special shipping information:** Not applicable.

## SECTION IX: PREPARATION

**Date updated:** November 1, 2007

**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.