



MATERIAL SAFETY DATA SHEET

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 1-613-996-6666 – CANUTEC – Transportation Emergency
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MAX GEL

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: MAX GEL

Chemical Family: Mixture

WHMIS Classification:D2A

Workplace Hazard: May cause eye, skin, and respiratory tract irritation. Long term inhalation of Particulates may cause lung damage. Contains crystalline silica which may cause cancer.

Product Use: Viscosifier

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)
Bentonite	80-95	1302-78-9	N/D	N/D
Silica, crystalline, quartz	2-15	14808-60-7	N/D	N/D
Gypsum (Calcium Sulphate)	0-1	13397-24-5	N/D	N/D
		778-18-9		
Silica, crystalline, Tridymite	0-1	15468-32-3	N/D	N/D

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure:

- **Eye Contact:** May cause mechanical irritation
- **Skin Contact:** May cause mechanical irritation. Long term contact can cause skin dryness.
- **Inhalation:** May cause mechanical irritation.
- **Ingestion:** May cause gastric distress, nausea and vomiting if ingested

Effects of chronic exposure: Long term inhalation of particulate can cause irritation, inflammation and/or permanent injury to the lungs. Illnesses such as pneumoconiosis ("dusty lung"), pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma may develop.

Exposure limits: (TLV & PEL – 8H TWA)

Ingredient	ACGIH TLV	OSHA PEL	Other
Bentonite (1)	N/A	N/A	N/A
Silica, crystalline, quartz (R)	0.025 mg/m ³	See table Z-3	NIOSH: 0.05 mg/m ³ TWA (10H day/40H wk)
Gypsum	10 mg/m ³	15 mg/m ³	N/A
Silica, crystalline, Tridymite (R)	0.05 mg/m ³	See table Z-3	N/A

(1) Control as an ACGIH particulate not otherwise specified (PNOS): 10 mg/m³ (Inhalable); 3 mg/m³ (Respirable) and an OSHA particulate not otherwise regulated (PNOR): 15 mg/m³ (Total); 5 mg/m³ (Respirable).

(R) Respirable fraction (ACGIH);

Table Z-3: PEL for Mineral Dusts containing crystalline silica are 10 mg/m³ / (%SiO₂+2) for quartz and 1/2 the calculated quartz value for cristobalite and tridymite.



Irritancy of product: Mechanical irritation

Sensitization to product: Not available

Carcinogenicity:

Crystalline silica is the most widely occurring of all minerals. The most common form of silica is sand. The International Agency for Research on Cancer (IARC) has designated crystalline silica in the form of quartz or cristobalite a Group 1 (carcinogenic to humans). This designation was based on an increased risk of lung cancer among crystalline silica exposed workers. IARC did note that carcinogenicity of crystalline silica in humans was not detected in all industrial circumstances studied.

Further, carcinogenicity of crystalline silica may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of polymorphs. (IARC Vol. 68, 1997, p. 41). The National Toxicology Program (NTP) classifies crystalline silica as "reasonably anticipated to cause cancer in humans" (6th Annual Report on Carcinogens, 1991). Long term inhalation of crystalline silica can also result in the lung disease, silicosis. Symptoms of this disease include coughing and shortness of breath. (NJ HSFS, January 1996)Silica in the form of quartz or cristobalite is carcinogenic to humans

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available

SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.

Eye contact: Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: Tan to grey powder. Odorless.

Odour threshold: Not applicable

Specific gravity: 2.3-2.6

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: Not determined

Co-efficient of water/oil distribution: Insoluble

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not combustible

Means of extinguishing: Use extinguishing media appropriate for surrounding fire

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not determined

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: Not determined

Conditions of reactivity: Not determined

Hazardous decomposition products: None known



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment:

- **Eye/Face Protection:** Dust resistant safety goggles.
- **Skin Protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact. Chemical resistant gloves recommended for prolonged or repeated contact. Use protective gloves made of: Nitrile. Neoprene.
- **Respiratory Protection:** All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. If exposed to airborne particles of this product use at least a NIOSH-approved N95 half-mask disposable or re-useable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or re-usable particulate respirator.

Specific engineering controls: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

Procedures for leak/spills: Evacuate surrounding area, if necessary. Wet product may create a slipping hazard. Contain spilled material. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal. Waste must be disposed of in accordance with federal, state and local laws. Do not allow to enter sewer or surface and subsurface waters.

Waste disposal: 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 in a permitted industrial landfill.

Handling procedures and equipment: Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid generating or breathing dust. Product is slippery if wet. Use only in a well ventilated area. Wash thoroughly after handling.

Storage requirements: Store in dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: November 29, 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.