



MATERIAL SAFETY DATA SHEET

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BARAGEL 3000

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: BARAGEL 3000 (OILGEL 3000)
Chemical Family: Organic sodium montmorillonite
WHMIS Classification: D2A
Workplace Hazard: Repeated or prolonged exposures may cause lung damage (Silicosis). CONTAINS CRISTALLINE SILICA (QUARTZ) WHICH MAY CAUSE CANCER.

Product Use: Invert Viscosifier
TDG Classification: Not applicable
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Crystalline Silica (SiO ₂)	<3%	14808-60-7	500 mg/kg oral/rat	No data available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling. Harmful by inhalation. May cause irritation of respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects of chronic exposure: Repeated and/or prolonged exposures may cause lung damage (Silicosis). CONTAINS CRYSTALLINE SILICA (QUARTZ) WHICH MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

Long-term chronic toxicity studies to evaluate the carcinogenic potential of this product have not been conducted; See table and/or data, below, of individual components:

Components	NTP	IARC	OSHA
Crystalline silica (Quartz)	Group A – Known to be human carcinogens	Group 1 – Carcinogenic to humans	Present

Exposure limits:

Crystalline Silica (Quartz)

OSHA PEL: 0.1 mg/m³ (respirable fraction)
OSHA TWA: 0.1 mg/m³ (respirable fraction)
ACGIH-TWA: 0.025 mg/m³ (respirable fraction)

TLV/PEL: Particles (insoluble or poorly soluble). Not Otherwise Specified [PNOS]

OSHA TWA: 15 mg/m³ (total dust); 5 mg/m³ (respirable fraction)
ACGIH TWA 10 mg/m³ (total dust); 3 mg/m³ (respirable fraction)

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Irritancy of product: Contact with eyes may cause irritation. May cause irritation of respiratory tract. Ingestion may cause gastrointestinal irritation.

Sensitization to product: Not applicable

Carcinogenicity: Crystalline silica has been reviewed by IARC. IARC working group found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. Therefore, IARC working group has classified Crystalline Silica as carcinogenic to humans (Group 1).

Reproductive toxicity: Not determined

Teratogenicity: Not determined

Mutagenicity: Quaternary ammonium compounds was not mutagenic when tested in the following in vitro assays: the Ames test using *S. typhimurium* and the cytogenetic assay using V 79 and *E. coli* with and without metabolic activation.

Name of toxicological synergistic products: Not determined

SECTION IV: FIRST AID MEASURES

Skin contact: Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Do not give anything by mouth to an unconscious person.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: White powder, Odourless

Odour threshold: Not applicable

Density: 1.7 g/cm³

Vapor pressure (mmHG): Not applicable



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Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Melting point (°C): Not applicable

pH (%): Not determined

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

SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not flammable.

Means of extinguishing: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: No self igniting

Hazardous combustion products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

Explosion data-sensitivity to mechanical impact: No data available

Explosion data-sensitivity to static discharge: Excess dust dispersed in air represents an explosion hazard in the presence of electrical sparks and static discharges.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable at normal conditions

Product incompatible with: Oxidizing agents

Conditions of reactivity:. Avoid heat, flames and sparks.

Hazardous decomposition products: No decomposition if stored normally.



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Safety glasses. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Use protective gloves, neoprene gloves.

Specific engineering controls: Maintain adequate ventilation to keep hazardous ingredients below their PELs or TLVs. Use NIOSH/MSHA approved respirator whenever exposure limits exceeded. In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Procedures for leak/spills: Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Sweep up and shovel into suitable containers for disposal. Clean spill area thoroughly. Local authorities should be advised if significant spillages cannot be contained.

Waste disposal: Do not contaminate ponds, waterways or ditches with chemical or used container. Observe all federal, provincial and local regulations when disposing of this material.

Handling procedures and equipment: Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

Storage requirements: Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

Special shipping information: None

SECTION IX: PREPARATION

Date updated: April 1, 2010

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.