



MATERIAL SAFETY DATA SHEET

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BENTONE 150

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: BENTONE 150
Chemical Family: Organophilic clay
WHMIS Classification: D2A
Workplace Hazard: Toxic effect

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 as Quartz	<1.0	14808-60-7	-	-

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Possible mechanical irritation of eyes and respiratory tract.

Effects of chronic exposure: As with any nuisance dust, long term exposure to concentrations above recommended guidelines may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Long term exposure to products containing crystalline silica may cause silicosis.

Exposure limits: ACGIH 0.05 mg/m³ TLV

Irritancy of product: Mechanical irritation with eye contact. Cannot be absorbed through the skin. Not expected to cause irritation to the skin. Not expected to produce adverse effects with ingestion. May cause slight irritation with inhalation.

Sensitization to product: Not applicable

Carcinogenicity: Contains crystalline silica a known carcinogen to humans.

Reproductive toxicity: Not applicable

Teratogenicity: Not applicable

Mutagenicity: Not applicable

Name of toxicological synergistic products: Not applicable



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SECTION IV: FIRST AID MEASURES

Skin contact: Wash with soap and water.

Eye contact: Flush eyes with running water for at least 15 minutes. If adverse symptoms develop, seek medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if required.

Ingestion: Provide symptomatic treatment and seek medical attention. Do not induce vomiting.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: Off white, powder, odourless.

Odour threshold: Not available

Specific gravity: Not applicable

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not available

Evaporation rate: Not available

Boiling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: Not available

Co-efficient of water/oil distribution: Not available



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Dry chemical, carbon dioxide, foam, water. Firefighters must wear appropriate breathing apparatus and clothing

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Avoid high dust concentrations and ensure all equipment is properly grounded to prevent static discharges

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: None known.

Conditions of reactivity: Not available

Hazardous decomposition products: Possible emission of carbon monoxide, carbon dioxide and ammonia.



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Recommend NIOSH approved dust respirator. Chemical resistant clothing is recommended including glove, apron and goggles.

Specific engineering controls: Mechanical ventilation.

Procedures for leak/spills: Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or reuse. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for reuse or disposal

Waste disposal: All waste should be disposed of according to federal, provincial and local regulations. Containers should not be reused. Containers should be disposed of in accordance with government regulations.

Handling procedures and equipment: Keep container tightly closed and away from incompatible materials

Storage requirements: Store in a cool, dry, well ventilated place.

Special shipping information: Not applicable.

SECTION IX: PREPARATION

Date updated: June, 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.