



MATERIAL SAFETY DATA SHEET

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ENVIROPLUG #8

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: ENVIROPLUG #8
Chemical Family: Natural mineral, Montmorillonite
WHMIS Classification: D2A
Workplace Hazard: Potential carcinogen; contains free silica

Product Use: Loss circulation material
TDG Classification: Not regulated
Packaging Group: Not applicable
PIN: Not applicable
CAS#: 1302-78-9

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent (w/w)	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Silica, crystalline quartz	2-6	14808-60-7	Not available	Not available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause irritation of the upper respiratory tract. Possible skin drying resulting in dermatitis. May cause mechanical eye irritation.

Effects of chronic exposure: 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: ACGIH-TLV: 0.05 mg/m³ (respirable)

Irritancy of product: May cause mechanical irritation to eyes, skin and lungs.

Sensitization to product: No information available.

Carcinogenicity: Bentonite 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.



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SECTION IV: FIRST AID MEASURES

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

Eye contact: Flush with water until irritation ceases. If irritation persists, contact a physician.

Inhalation: Move to area free from dust. Apply oxygen or artificial respiration if required. If symptoms or irritation persist contact a physician. Inhalation may aggravate existing respiratory illness.

Ingestion: No first aid required, material is non-toxic.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light tan to gray powder or granules; odourless

Odour threshold: Not applicable

Specific gravity: 2.45-2.55

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Melting point (°C): 1450

pH: 8-10 (5% aqueous suspension)

Co-efficient of water/oil distribution: Insoluble.



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Product becomes very slippery when wet, avoid using water as fire fighting agent.

Means of extinguishing: Use media suitable for surrounding fire and packaging. Do not use water. Product becomes very slippery when wet.

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: None known

Conditions of reactivity: Not available

Hazardous decomposition products: None known



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved respirators for silica bearing dust. Suggest using safety goggles or glasses.

Specific engineering controls: Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of airborne dust below TLV. Ensure emergency eye wash station and safety shower are available.

Procedures for leak/spills: Wear an approved respirator. Vacuum if possible to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect uncontaminated material in an approved container for disposal. Avoid adding water; the product will become slippery when wet.

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. Empty packaging must be disposed of, or recycled, in accordance local regulations.

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

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

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: May, 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.