



# 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

## ENVIROPLUG COARSE

### SECTION I: IDENTIFICATION OF PRODUCT

**Product Name:** ENVIROPLUG COARSE  
**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 <sub>50</sub> (Species/Route)	LC <sub>50</sub> (Species/Route)
Silica, crystalline Quartz	1-5 or 5-10	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 mechanical irritation in eyes. Drying of skin resulting in dermatitis. May cause irritation of the upper respiratory tract. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring.

**Effects of chronic exposure:** 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 0.025mg/m<sup>3</sup> respirable – Silica, crystalline quartz

**Irritancy of product:** Eyes, upper respiratory tract

**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:** No information available

**Name of toxicological synergistic products:** No information available



# ENVIROPLUG COARSE

## 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. 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 grey 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% suspension)

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



# ENVIROPLUG COARSE

## SECTION VI: FIRE AND EXPLOSION DATA

**Conditions of flammability:** Not applicable

**Means of extinguishing:** Use media suitable for surrounding fire and packaging. Product becomes very slippery when wet, avoid using water as fire fighting agent.

**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



# ENVIROPLUG COARSE

## SECTION VIII: PREVENTATIVE MEASURES

**Personal protective equipment:** NIOSH approved respirators for silica bearing dust. Goggles or safety glasses

**Specific engineering controls:** Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of airborne dust below TLV.

**Procedures for leak/spills:** Wear an approved respirator. Vacuum if possible to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated 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 with 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; handle as if full.

**Special shipping information:** Not applicable

## SECTION IX: PREPARATION

**Date updated:** January 26, 2011

**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.