



# Prairie Mud Service

"Serving Western Canada with 24 Hour Drilling Mud Service"

## POULTRY GRIT (CALCIUM CARBONATE)

### SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **November 19, 2014**  
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PRODUCT NAME: **POULTRY GRIT  
(Calcium Carbonate)**

PRODUCT USE: Drilling fluid and cement additive

CHEMICAL FAMILY: Inorganic salt (calcium carbonate) CAS #: 471-34-1

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A

WORKPLACE HAZARD: Potential carcinogen; may contain crystalline silica

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated under TDG.

TDG CLASSIFICATION: Not applicable.

UN NUMBER (PIN): Not applicable.

PACKING GROUP: Not applicable.

### SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	Calcium carbonate	% (w/w)	CAS NUMBER	LD <sub>50</sub> Oral-Rat	LC <sub>50</sub> Inhal-Rat	ACGIH-TLV
		60-100	471-34-1	6450 mg/kg	Not available	Not established
	Crystalline silica, quartz	0.1-1.0 & 0.0-0.1*	14808-60-7	Not available	Not available	0.025 mg/m <sup>3</sup> respirable

\* Concentration of crystalline silica in a series of lime products will vary from source to source. It was not detected on some samples (<0.1% w/w). Therefore two ranges are being disclosed.

### SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: D EYE CONTACT D SKIN CONTACT  INHALATION D INGESTION

EYE CONTACT: Dust or solid can cause mechanical irritation.

SKIN CONTACT: May cause mild skin irritation. Repeated or prolonged contact may have a drying effect on the skin.

INGESTION: May cause gastro-intestinal irritation.

INHALATION: Dust may cause respiratory tract irritation. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation may cause irritation of the nose, throat and respiratory passages. Long-term 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.

CARCINOGENICITY: Calcium carbonate is not listed by IARC, NTP, OSHA or ACGIH. However, these products could contain crystalline silica which when inhaled in the form of quartz from occupational sources is carcinogenic to humans: IARC has concluded that this chemical is carcinogenic to humans (Group 1); ACGIH has designated this chemical as a suspected human carcinogen (A2), and; NTP has listed this chemical as a known human carcinogen.

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.

SYNERGISTIC PRODUCTS: No information available.

### SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, or develops, obtain medical attention.

**EYE CONTACT:** Rinse eyes with gently flowing warm water until particles are removed. If irritation persists, obtain medical attention

**INGESTION:** No adverse effects expected. If irritation or discomfort occur, obtain medical advice immediately.

**INHALATION:** Move to fresh air. Give oxygen or artificial respiration if required. If breathing difficulties or distress continues contact a physician.

## SECTION V: PHYSICAL DATA

**APPEARANCE AND ODOUR:** White to grey powder or granule; odourless

**SPECIFIC GRAVITY:** 2.65 – 2.75

**BOILING POINT (°C):** Not applicable

**MELTING POINT (°C):** Not applicable

**SOLUBILITY IN WATER:** 0.001% wt/wt @ 20°C pH: 9.4 (sat. sol'n)

**PERCENT VOLATILE BY VOLUME:** Not applicable

**EVAPORATION RATE:** Not applicable

**VAPOUR PRESSURE (mmHg):** Not applicable

**VAPOUR DENSITY (air = 1):** Not applicable

**BULK DENSITY:** 990 – 1900 kg/m<sup>3</sup>

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** Not applicable

**FLAMMABLE LIMITS:** Not applicable

**EXTINGUISHING MEDIA:** Use media appropriate for packaging and surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus required for fire-fighting personnel.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Calcium carbonate is generally non-flammable, but ignites on contact with fluorine.

**HAZARDOUS COMBUSTION PRODUCTS:** No information available.

## SECTION VII: REACTIVITY DATA

**STABILITY:**  STABLE  D UNSTABLE

**INCOMPATIBILITY (CONDITIONS TO AVOID):** Reacts with acids to liberate CO<sub>2</sub>. Ignites on contact with fluorine. May have explosive reaction with magnesium.

**CONDITIONS OF REACTIVITY:** Contact with incompatible materials. Decomposes at 870°C.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide and calcium oxide.

**HAZARDOUS POLYMERIZATION:**  WILL NOT OCCUR  D MAY OCCUR

## SECTION VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Dust mask suggested. Use suitable respiratory protection if TLV's are exceeded.

**VENTILATION:** Use local exhaust ventilation, process enclosure or other engineering controls as necessary to maintain dust levels below TLV.

**PROTECTIVE GLOVES:** Rubber gloves.

**EYE PROTECTION:** Suggest goggles.

**OTHER PROTECTIVE EQUIPMENT (SPECIFY):** Suggest a long sleeved shirt, trousers, and safety shoes. Ensure eyewash station and emergency shower are available.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid inhalation. Wear protective equipment to prevent skin and eye contact. Avoid creating dust. Store in cool, dry area away from incompatibles. Empty packages contain residual hazardous material and should be handled as if full.

### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Avoid creating excessive dust during cleanup. Material can be swept up or vacuumed. Collect uncontaminated material for repackaging. Collect contaminated material in appropriate container for disposal.

### WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. This material is inert and can be landfilled in most locations; check with local operator. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

## SECTION IX: PREPARATION

The information contained herein is given in good faith, but no warranty, expressed or implied, is made.

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**BY:** Regulatory Affairs

**SUPERSEDES:** November 22, 2011  
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