



MATERIAL SAFETY DATA SHEET

#1700, 407 2ND 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

CALCIUM CARBONATE “0; 325; SUPERCAL-GLASS ROCK; POULTRY GRIT; 30*60”

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: CALCIUM CARBONATE
Chemical Family: Inorganic Salt (calcium carbonate)
WHMIS Classification: D2A
Workplace Hazard: Potential carcinogen; may contain crystalline Silica

Product Use: Bridging agent
TDG Classification: Not regulated
Packaging Group: Not applicable
PIN: Not applicable
CAS#: 471-34-1

SECTION II: HAZARDOUS INGREDIENTS

| Ingredients | Percent | CAS Number | LD ₅₀ (Rat/Oral) | LC ₅₀ (Species/Route) |
|-------------------------------|---------------------|------------|-----------------------------|----------------------------------|
| Calcium Carbonate (Limestone) | 60-100 | 471-34-1 | 6450 mg/kg | Not available |
| Crystalline Silica, Quartz | 0-1 – 1 0.0-0.1* | 14808-60-7 | Not available | Not available |

* 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: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Dust can cause mechanical irritation to the eyes. May cause mild skin irritation. Repeated or prolonged contact may have a drying effect on the skin. May cause gastro-intestinal irritation. Dust may cause respiratory tract irritation.

Effects of chronic exposure: 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.

Exposure limits: ACGIH-TLV 0.025 mg/m³ respirable

Irritancy of product: Irritant. See acute and chronic exposure.

Sensitization to product: No information available

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.

Reproductive toxicity: No information available

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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

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.

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

Ingestion: No adverse effects expected. If irritation or discomfort occurs, obtain medical advice immediately.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: White to grey powder or granule; odourless

Odour threshold: Not applicable

Specific gravity: 2.65-2.75

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Melting point (°C): Not applicable

pH: 9.4 (sat. solution)

Solubility in Water: 0.001% wt/wt @ 20°C



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Calcium carbonate is generally non-flammable, but ignites on contact with fluorine.

Means of extinguishing: Use media appropriate for packaging and surrounding materials.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: None

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: Reacts with acids to liberate CO₂. 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.



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Dust mask suggested. Use suitable respiratory protection if TLV's are exceeded. Rubber gloves. Suggest goggles. Suggest a long sleeved shirt, trousers, and safety shoes. Ensure eyewash station and emergency shower are available.

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

Procedures for leak/spills: 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: dispose in accordance with federal, provincial and local regulations. This material is inert and can be land filled 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.

Handling procedures and equipment: Avoid inhalation. Wear protective equipment to prevent skin and eye contact. Avoid creating dust.

Storage requirements: Store in a cool, dry area away from incompatibles. Empty packages contain residual hazardous material and should be handled as it full.

Special shipping information: Not applicable.

SECTION IX: PREPARATION

Date updated: November 22, 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.