



12946 S. Dairy Ashford Road, Suite 410, Sugar Land, TX 77478

MATERIAL SAFETY DATA SHEET

SECTION 1 - COMPANY IDENTIFICATION

CHANGQING PROPPANT CORPORATION
12946 S. Dairy Ashford Road, Suite 410, Sugar Land, TX 77478 EMERGENCY
CONTACT: 1 (832) 532-7390

SECTION 2 - PRODUCT IDENTIFICATION

TRADE NAME: **CQLite™** (all mesh sizes)
SYNONYM(S): Ceramic proppant, Alumino-Silicate Proppant, Lightweight Ceramic Proppant
CHEMICAL FAMILY: Aluminosilicate

SECTION 3 - COMPONENT INFORMATION

| INGREDIENTS | CAS NUMBER | CONCENTRATION | CLASSIFICATION | R-PHRASES |
|-----------------|-----------------------------|---------------|----------------|--------------|
| Silicon Dioxide | 14464-46-1 (crystalline) | 5-20% | Not Classified | Not assigned |
| | 7631-86-9 (amorphous) | 10-30% | | |
| Mullite | 1302-93-8 | 50-80% | Not Classified | Not assigned |

SECTION 4 - PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT: 3500°F (estimated) SPECIFIC GRAVITY: 2.7 (H₂O = 1)
pH: N/A BULK DENSITY: 97 lbs/cu.ft.
VAPOR PRESSURE: N/A mm Hg % VOLATILE BY WEIGHT: N/A
VAPOR DENSITY: N/A (Air=1) EVAPORATION RATE: N/A (Butyl Acetate=1)
SOLUBILITY IN WATER: Insoluble
APPEARANCE/ODOR: Odorless greyish white spherical particles
VOLATILE ORGANIC COMPOUNDS (VOC): 0 lbs/gal (EPA Reference Methods 24)

SECTION 5-FIRE AND EXPLOSION HAZARD DATA

SPECIAL FIRE FIGHTING PROCEDURES:

This material is not combustible, un-flammable and un-volatile. Use extinguishing agent suitable for type of surrounding fire.

ESTIMATED EXPLOSIVE LIMITS (% By volume in air): LEL: N/A; UEL: N/A; FLASH POINT: N/A;

UNUSUAL HAZARDS: N/A



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SECTION 6 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

No Special procedures are required for clean-up of spills or leaks of this material. Caution should be exercised regarding personal safety and exposure to the spilled material, the material's nature could cause reduced traction. Persons should take care so as not to slip.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Do not create dust. Avoid breathing dust by using personal protective equipment. Refer to section 8 for personal protective equipment.

STORAGE:

Store dry in closed container and away from other chemical materials.

SECTION 8 - EXPOSURE CONTROLS/PROTECTION DURING USE

EXPOSURE LIMITS:

| INGREDIENTS | OSHA PEL-TWA | ACGIH-TWA TLV |
|------------------------------|--|--|
| Silicon dioxide, crystalline | 15 mg/m3/(%SiO2+2) (total) 5 mg/m3/(%SiO2+2) (respirable) | 0.05 mg/m3 (respirable) |
| Silicon dioxide, amorphous | 80 mg/m3/%SiO2 (total) | |
| Mullite | 15 mg/m ³ (total) 5 mg/m ³ (respirable) | 10 mg/m ³ (total) 3 mg/m ³ (respirable) |

RESPIRATORS:

An applicable NIOSH/MSHA or equivalent approved respirator should be worn where airborne exposures may exceed OSHA/ACGIH permissible air concentrations. Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

VENTILATION:

Provide sufficient (general and/or local exhaust) ventilation to maintain exposure below permissible air concentrations.

ENGINEERING CONTROL MEASURES:

Exposure to this material depends on how the material is used and the time frame for exposure. There may be many measures appropriate for a particular worksite. Use of the basic principles of industrial hygiene is advised for safe handling of the material.

EYE PROTECTION:

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance unless protected under full coverage goggles.

CLOTHING/GLOVES:



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Gloves are optional to reduce abrasion. WORK HYGIENE PRACTICES:
Handle in accordance with good personal hygiene and safety practices.

SECTION 9 - FIRST AID MEASURES

INHALATION:

Remove affected person from source of exposure. Get medical attention if irritation occurs.

INGESTION:

Seek medical attention if large quantities are ingested.

EYE CONTACT:

Immediately flush eyes with large amounts of water, lifting the lower and upper lids occasionally. If irritation is present after washing, get medical attention.

SKIN CONTACT:

Wash the affected area with soap and water. Get medical attention if irritation occurs.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBLE MATERIALS: Chlorine Trifluoride.
REACTIVITY: Minimal

SECTION 11 - HEALTH HAZARD DATA

INHALATION:

Product contains few particles of respirable size. The amount of dust due to breakdown during shipment and intended use and handling is not expected to exceed applicable exposure limits. Inhalation of dusts may cause respiratory tract irritation. Repeated or prolonged breathing of particles of respirable size may cause severe respiratory disease.

EYE CONTACT: Airborne dust may cause irritation to eyes.

SKIN CONTACT: Prolonged contact with a skin may cause irritation.

HMIS RATING: HEALTH 1 (slight) FLAMMABILITY 0 (minimal) REACTIVITY 0 (minimal)

SECTION 12 - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Coughing and throat irritation are early symptoms of excessive exposure. May cause irritation to the respiratory system, lungs and skin. May also irritate eyes.

CHRONIC EFFECTS:

Chronic exposure in excess of established human exposure levels can cause severe



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respiratory disease.

SECTION 13 - ECOLOGICAL INFORMATION

This product poses no significant environmental contamination impact during expected use, handling, and proper disposal.

SECTION 14 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal must be at an approved waste disposal facility and in accordance with applicable Federal, State and Local laws and regulations. Contact the district Director of the Environmental Protection Agency and/or state regulatory agency for appropriate requirements.

SECTION 15 - TRANSPORTATION INFORMATION

| | |
|--------------------------|----------------|
| DOT SHIPPING DESCRIPTION | Not Restricted |
| ICAO/IATA | Not Restricted |
| RID/ADR | Not Restricted |
| CAN | Not Restricted |
| IMO | Not Restricted |
| UN NO. | N/A |

SECTION 16 - REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS: All chemicals in this product are listed, automatically included, or are exempt from listing on the TSCA Inventory.

SARA TITLE III: Section 302: None
Section 312: None
Section 313: None

CERCLA REPORTABLE QUANTITY: None

CLEAN AIR AMENDMENTS-HAZARDOUS AIR POLLUTANTS (HAPS): None

CALIFORNIA STATE PROPOSITION 65: N/A

SECTION 17 - OTHER INFORMATION

N/A