

MATERIAL SAFETY DATA SHEET
Prepared according to 29 CFR 1910.1200

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MSDS NO: 136

SECTION I - IDENTIFICATION

L&M CONSTRUCTION CHEMICALS, INC.
14851 CALHOUN ROAD
OMAHA, NE 68152

ASSISTANCE (CHEMTREC) 800-424-9300
EMERGENCY PHONE NO. 402-453-6600

ID NO.: N/Ap

PRODUCT
NAME: **CRYSTEX**

DOT CLASS: N/Ap

CHEMICAL
NAME: Cement Based Structural Grout

DOT SHIPPING
NAME: N/Ap

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Substance	CAS Number	OSHA PEL	ACGIH TLV-TWA	MSHA Exposure Limits
Portland Cement -total dust	65997-15-1	15mg/m ³	10 mg/m ³	10 mg/m ³
Portland Cement - respirable dust	65997-15-1	5 mg/m ³	Not Applicable	Not Applicable
Quartz	14808-60-7	10 mg/m ³ (% silica =2)	0.05 mg/m ³ (respirable fraction)	10 Mg/m ³ (% silica +2)

Unlisted ingredients are not "hazardous" per OSHA standard 29CFR1910.1200 and are considered to be a trade secret of L&M Construction Chemicals, Inc.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (F): N/Ap CRYSTEX is a powdered solid
VAPOR PRESSURE (mm Hg): N/Ap
VAPOR DENSITY (AIR = 1): N/Ap
SOLUBILITY IN WATER: Slight
APPEARANCE: Grey Powder
ODOR: None

SPECIFIC GRAVITY (H₂O = 1): 2.65
PERCENT VOLATILE BY VOLUME: N/Ap
MELTING POINT: Above 1000°F
BULK DENSITY: N/Ap
PH INFORMATION: N/Ap
EVAPORATION RATE: N/Ap

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARDS FIRES: N/Ap
FLASH POINT, °F, None
FLAMMABLE LIMITS - LEL: N/Ap UEL: N/Ap

EXTINGUISHING MEDIA: N/Ap

SPECIAL FIRE FIGHTING PROCEDURES: N/Ap

SECTION V - REACTIVITY DATA

STABILITY: unstable: stable: X
INCOMPATIBILITY (materials to avoid): Avoid mixing with strong acids.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/Ap
HAZARDOUS POLYMERIZATION: may occur: will not occur: X
CONDITIONS TO AVOID: N/Ap

SECTION VI - HEALTH HAZARD DATA**CRYSTEX**

POTENTIAL EFFECTS OF EXPOSURE (listed by primary routes of entry)

INHALATION: Product contains crystalline cement and quartz silica. Repeated inhalation of silica in excess of the TLV over extended periods can cause silicosis.

SKIN: Dryness, itching, rashes and burns can develop following skin contact. Skin abrasions can occur if material is rubbed against skin. Dermatitis and skin sensitization can develop after repeated or prolonged skin contact.

INGESTION: No toxic effects are known to be associated with ingestion of this material.

EYE CONTACT: This material can irritate and may burn eyes following direct contact. The aggregate particles may cause abrasions of the cornea.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If cough, irritation, difficulty in breathing or other respiratory symptoms persist or develop, consult a physician. Note to physician: mucosal injury following ingestion of this material may contraindicate the induction of vomiting in the treatment of possible ingestion.

SKIN: Rinse skin free of material with water to avoid abrasion of skin. Do not rub until skin is free of material; then wash thoroughly with soap and water. If redness persists, seek medical attention. Remove and decontaminate clothing and footwear before reuse.

INGESTION: Give one to two glasses of water to drink and refer to medical personnel.

EYE CONTACT: Do not rub eyes. Rinse immediately with plenty of water for at least 15 minutes and consult a physician immediately.

CARCINOGENICITY OSHA: NO NTP: NO IARC: NO

HMIS: Health Hazard: 1, Fire Hazard: 0, Reactivity: 0, Personal Protection: A

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No hazards. Sweep up and maintain normal housekeeping procedures. If necessary, dike spills of material and shovel into waste containers. Avoid generating dust.

WASTE DISPOSAL METHOD: No hazards. Reuse powder if uncontaminated. Discarded product is non-hazardous waste under RCRA (40 CFR, Part 261). Dispose as non-hazardous waste in compliance with local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Minimize broken bags and spilled materials by employing good handling procedures. Store in cool, dry area off the ground. Avoid contact with acids and oxidizers.

OTHER PRECAUTIONS: Minimize dust generation. Avoid eye and skin contact. Avoid breathing dust.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH approved particulate mask.

VENTILATION

LOCAL EXHAUST: Use when possible to minimize exposure

PROTECTIVE GLOVES: Recommended

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK/HYGIENIC PRACTICES: Avoid eye and skin contact. Immediately after working with cement based products, workers should wash exposed areas with soap and water.

END OF MSDS