

Safety Data Sheet

CONCRETE MASONRY UNITS



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SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

NAME Concrete Masonry Units	SYNONYMS CMU, Concrete Block	Revised: 03/09/15
MANUFACTURER Tileco Inc. 91-209 Hanua St. Kapolei, HI 96707	EMERGENCY PHONE NUMBER 808-682-5737	

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless concrete blocks; comes in a range of colors and shapes. Non-flammable. Concrete masonry units themselves pose no health hazards; however, dust from crushed or broken concrete may cause skin, eye or respiratory tract irritation.

PHYSICAL HAZARDS: None

PRIMARY ROUTES OF EXPOSURE: Primary routes of exposure to concrete dust are inhalation and eye/skin contact.

POTENTIAL EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: Sawing or grinding may result in release of dust particles which may cause irritation to eyes and nose or shortness of breath.

POTENTIAL EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: Sawing or grinding may result in release of dust particles which may result in lung disease (Silicosis) if exposed to excessive amounts for prolonged periods.

CARCINOGENICITY: Concrete masonry units are not listed as a carcinogen by the International Agency on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing lung disease such as Emphysema or Asthma.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

OSHA REGULATORY STATUS: Concrete masonry units are not considered hazardous as shipped. Dust generated from crushing, cutting, grinding or drilling hardened concrete may contain amounts of crystalline silica considered hazardous under the OSHA Hazard Communication Standards.

<u>HAZARDOUS COMPONENTS</u>	<u>CAS NUMBER</u>	<u>% BY WEIGHT</u>
Portland cement	65997-15-1	5 - 10
Crystalline silica (quartz)	14808-60-7	> 0.1

SECTION 4: FIRST AID MEASURES

INHALATION: Move exposed individual to fresh air. Dust in throat and nasal passages should clear naturally by coughing, sneezing and nasal discharge. Obtain medical attention if symptoms persist or develop later.

EYE CONTACT: Flush eyes generously with water for 15 minutes. If irritation persists, contact a physician.

SKIN CONTACT: If irritation occurs, flush gently with water until dust is removed. If irritation persists or develops later, obtain medical attention.

INGESTION: Ingestion is not a common route of occupational exposure for this product.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT FLAMMABLE LIMITS: Not combustible. Not applicable.

EXTINGUISHING AGENTS: Not combustible. Use extinguishing agent appropriate for surrounding flammable materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Spalling of hardened concrete may occur under conditions of intense heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: If large amounts of dust have been generated, eye protection and appropriate respiratory protection should be used to protect cleanup personnel against dust.

SPILL AND LEAK PROCEDURES: Sweep up and discard.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS: None

RECOMMENDED STORAGE CONDITIONS: None

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

REGULATORY PERMISSIBLE EXPOSURE LIMITS

COMPONENT & CAS #	OSHA PEL-TWA
Portland Cement CAS # 65997-15-1	(<1% crystalline silica)
Respirable Dust	5 mg/m ³ *
Total Dust	15 mg/m ³ **

COMPONENT	OSHA PEL
Respirable Dust containing 1% or more crystalline silica (quartz)	<u>(10 mg/m³)</u> (%SiO ₂ + 2)
Total Dust containing 1% or more crystalline silica (quartz)	<u>(30 mg/m³)</u> (%SiO ₂ + 2)

OTHER GUIDELINES

COMPONENT	ACGIH TLV	NIOSH REL
Portland Cement (<1% crystalline silica)	10 mg/m ³	5 mg/m ³
Crystalline silica (quartz) CAS#14808-60-7	0.025 mg/m ³	0.05 mg/m ³

ENGINEERING CONTROLS: When crushing, cutting, grinding or drilling concrete, use general ventilation, local exhaust and/or wet suppression methods to maintain exposures below allowable exposure limits.

RESPIRATORY PROTECTION: NIOSH Approved respirator and tight fitting goggles, protective gloves when required.

FEET PROTECTION: Use of steel toe shoes is recommended when handling pavers.

EYE PROTECTION: Safety glasses with side shields should be worn as minimum protection. Dust goggles or full face protection should be worn when conditions with high dust concentrations exist or are anticipated.

SKIN PROTECTION: Use gloves to provide hand protection from abrasion. In very dusty conditions, clothing with long sleeves will provide skin protection. Contaminated work clothing should be washed after use.

ADDITIONAL PROTECTIVE MEASURES: Airborne dust levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation and process enclosure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Solid, varies in shape. Odorless.

SPECIFIC GRAVITY: Not available.

COLOR: CMU is available in a range of colors.

EVAPORATION RATE: 0

FLAMMABILITY: Not flammable.

VAPOR DENSITY (AIR = 1): Not applicable.

VAPOR PRESSURE: Not applicable.

MELTING POINT: Not applicable.

BOILING POINT: Not applicable.

pH: Not applicable.

SOLUBILITY IN WATER: Negligible.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with strong acids and incompatible materials.

INCOMPATIBILITY: Incompatible with oxidizing agents and acids. Strong acids may etch concrete.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA: Standard animal toxicity data (e.g. LD50, LC50) are not available for quartz.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL DATA: Generally considered chemically inert in the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of as common waste.

SECTION 14: TRANSPORT INFORMATION

DOT HAZARD CLASS: None.

DOT PLACARD: None.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 313: Not applicable.

CERCLA 103: Not applicable.

RCRA HAZARDOUS WASTE: Waste is not hazardous.

STATE REGULATIONS

COMPONENT STATE REGULATORY LISTS: Crystalline Silica, quartz 14808-60-7 HI

SECTION 16: OTHER INFORMATION

NOTICE: Tileco Inc. believes that the information contained in this Safety Data Sheet is accurate. The suggested procedures are based on experience as of date of publication. They are not necessarily all-inclusive or fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules, or insurance requirements.

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