



BRILLIANT WHITE CEMENT



FOR PREMIUM WHITENESS AND STRENGTH

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

PRODUCT NAME:

BRILLIANT WHITE CEMENT

RECOMMENDED USE

USE ACC TO MANUFACTURE'S DIRECTION

SUPPLIER:

CEMIX PRODUCTS LIMITED

ADDRESS

19 ALFRED STREET ONEHUNGA, AUCKLAND, NEW ZEALAND.

TELEPHONE:

64 9 636 1000

FACSIMILE:

64 9 636 0000

EMERGENCY CONTACT:

0800 ASK CEMIX

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product.

EYE CONTACT: (Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet Brilliant White Cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT: (Acute) Exposure to dry Brilliant White Cement may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. (Chronic) Dry Brilliant White Cement coming in contact with wet skin or exposure to wet Brilliant White Cement may cause more severe skin effects, including

thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns. (Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to Brilliant White Cement. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION: (Acute) Exposure to Brilliant White Cement may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of cement. (Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

INGESTION: (Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

CARCINOGENIC POTENTIAL: Brilliant White Cement is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, IARC classifies crystalline silica, a trace constituent, as a known human carcinogen (Group I). NTP has characterized respirable silica as "reasonably anticipated to be a carcinogen." (

3. COMPOSITION / INFORMATION ON INGREDIENTS

3CaO • SiO ₂	-	Tricalcium Silicate
2CaO • SiO ₂	-	Dicalcium Silicate
3CaO • Al ₂ O ₃	-	Tricalcium Aluminate
4CaO • Al ₂ O ₃ • Fe ₂ O ₃	-	Tetracalcium Aluminoferrite
CaSO ₄ • 2H ₂ O	-	Calcium Sulphate dihydrate

4. FIRST AID

EYES: Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of Brilliant White Cement require immediate medical attention.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

ACCIDENTAL RELEASE MEASURES: Clean up spilled material without causing it to become airborne or mixed with water to limit potential harm. Wear appropriate personal protective equipment. Dispose of waste material according to local, state or federal regulations.

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5. HANDLING & STORAGE

SAFE HANDLING INFORMATION: Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection.

Use exposure control and personal.

PRECAUTIONS FOR USE:

ONLY TO BE USED AS PER RECOMMENDED USE.

6. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Gray, white or colored powder, odorless
PHYSICAL STATE:	Solid (Powder)
VAPOUR PRESSURE:	Not applicable
PH (IN WATER) (ASTM D1293-95)	12 to 13
BOILING POINT:	> 1000 °C
MELTING POINT:	Not applicable
SOLUBILITY:	Slightly soluble (0.1% to 1.0%)
GRAVITY (H₂O=1.0):	3.06-3.08
VAPOR DENSITY:	Not applicable

7. FIRE FIGHTING MEASURES

FLASH POINT: None

AUTO IGNITION TEMPERATURE: Not combustible

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Not combustible

HAZARDOUS PRODUCTS: None

COMBUSTION

LOWER EXPLOSIVE LIMIT: None

UPPER EXPLOSIVE LIMIT: None

SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION

HAZARDS: None

8. ACCIDENTAL RELEASE MEASURES

EMERGENCY INFORMATION: It can be a light gray, green or white nodule. When in contact with moisture in eyes or on skin, or when mixed with water, it's dust becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions.

9. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.

EYE PROTECTION: Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

SKIN PROTECTION: Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry Brilliant White Cement or clothing dampened with moisture mixed with cement and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable. Keep dry until used

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet cement is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

HAZARDOUS DECOMPOSITION: Will not occur.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

For a description of available, more detailed toxicological information, contact TECHNICAL FINISHES.

12. ECOLOGICAL INFORMATION

For a description of available, more detailed ecological information, contact TECHNICAL FINISHES.

13. DISPOSAL CONSIDERATIONS

SPILL: Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes.

DISPOSAL: Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Dispose of packaging/containers according to local, state and federal regulations.

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14. TRANSPORT INFORMATION

Brilliant White Cement is non hazardous under U.S./U.A.E. DOT regulations in same not classified as hazardous under IATA / ICAO regulations.

15. REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:

Brilliant White Cement is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

Status under CERCLA/Superfund, 40 CFR 117 and 302: Not listed.

Hazard Category under SARA (Title III), Sections 311 and 312:

It qualifies as a hazardous substance with delayed health effects.

Status under SARA (Title III), Section 313: Maybe subject to reporting requirements under Section 313. Contact sales office for further information.

Status under TSCA (as of May 1997):

Some substances in cement are on the TSCA inventory list.

Status under the Federal Hazardous Substances Act:

It is a hazardous substance subject to statutes promulgated under the subject act.

Status under California Proposition 65:

This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.

Status under Canadian Environment Protection Act:

Not Listed

Status under Canadian WHMIS:

Brilliant White Cement is considered to be hazardous material under the Hazardous Product Act as defined by the controlled Product Regulation(Class D2A,E-Corrosive Material) & subject to the requirement of WHMIS.

16. OTHER INFORMATION

DATE OF PREPARATION:

1 FEBRUARY 2017

REASON FOR ISSUE:

THIS DATA SHEET AND THE HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION IT CONTAINS HAS BEEN PREPARED BY CEMIX LTD ACCORDING TO CURRENT REGULATORY REQUIREMENTS AS AT DATE OF ISSUE. THE PRECAUTIONS AND ADVICE PROVIDED MAY NOT BE ACCURATE FOR ALL INDIVIDUALS AND/OR SITUATIONS. IT IS THE USER'S OBLIGATION TO EVALUATE AND USE THIS PRODUCT SAFELY AND COMPLY WITH ALL APPLICABLE LEGISLATION.