EkoRok™ - SDS

DATE: January 1, 2016
SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

PRODUCT NAME: EkoRok™

MANUFACTURER: CERAMIC CEMENT CORPORATION

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EMERGENCY (24 HOUR): 206-935-7161

RECOMMENDED USE: EkoRok is a single component, water-activated, 'cold-fired' ceramic cement material that sets up in approximately 30-minutes and ready for vehicular traffic in 90-minutes, strongly bonding to most concrete, tile, masonry, asphalt, wood/cellulose and metal surfaces. EkoRok is an eco-safe (no fly ash or other toxic ingredients) admixture that can be safely used indoors or outdoors in a variety of applications, developing high early strength that enables quick turnaround in normal & adverse weather conditions. Used for: Highway and bridge deck repair, Airport runways, Anchoring iron or steel, Industrial floors, Structural concrete repair, Any application where a fast-setting, superior quality concrete is preferable

RESTRICTIONS ON USE: Will not bond to plastic

SECTION 2 – HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! Odorless white, grayish white, buff or yellow colored powder. May cause nose, throat or respiratory tract irritation. May cause mild eye and skin irritation.

POTENTIAL HEALTH EFFECTS - Although EkoRok does not contain any known toxic ingredients the following precautions are important to observe for all silica power based products.

EYE - Abrasive action may cause irritation. In addition, contact can cause redness, burning, stinging, itching and edema.

SKIN Contact may cause irritation in sensitive individuals, especially in the presence of moisture. Prolonged or repeated contact may cause drying or cracking. Not readily absorbed through skin.

INGESTION - Ingestion is not likely to be a significant route of exposure. If swallowed may cause irritation, nausea, vomiting, diarrhea, and abdominal cramps.

INHALATION - May cause upper respiratory tract irritation. If inhaled as dust, this product can cause irritation of the respiratory system resulting in coughing and/or sneezing. Higher exposures may cause a build-up of fluid in the lungs with severe shortness of breath. Inhalation of silica can also cause a chronic irreversible lung disorder, silicosis. Some
medical reports state inhalation of silica dust may cause lung cancer. Inhalation of calcium carbonate may cause toxic or renal effects.

CHRONICEFFECTS / CARCINOGENICITY - This product contains crystalline silica in the form of quartz or crystobalite, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled. Silicosis, cancer, scleroderma, tuberculosis, nephrotoxicity and arthritis are potential chronic effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE - The

condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

SECTION 3 – COMPOSTION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	0% by weight
Various oxides (1)	Mixture	20 -35
Cementitious material	Mixture	15 - 30
Crystalline silica (sand)	14808-60-7	30 -65
Inorganic additives	Proprietary	1 - 5

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations. Some components of this product may be claimed as trade secret. The hazards of these ingredients, if any, are covered by this material safety data sheet.

SECTION 4 – FIRST AID MEASURES

EYE - Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Seek medical attention immediately. Do not rub eyes.

SKIN - Quickly and gently, blot or brush away excess chemical. Remove contaminated clothing, shoes and leather goods. Flush contaminated area with lukewarm, gently flowing water for at least 5 minutes. If irritation persists, repeat flushing. Seek medical attention immediately.

INGESTION - Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. If irritation or discomfort occurs, obtain medical advice immediately.

INHALATION - Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: Not flammable Method: N/A

EXTINGUISHING MEDIA - Not flammable Method: N/A

FIRE & EXPLOSION HAZARDS - Not flammable Method: N/A

FIREFIGHTING INSTRUCTIONS - Not flammable Method: N/A

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL/LEAKPROCEDURES - Do NOT use water on bulk material spills. Use proper protective equipment.

SMALLSPILLS - Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with compressed air - Store collected materials in dry, sealed plastic or metal containers. Residue on surfaces may be water washed.

LARGE SPILLS - Use dry methods to collect spilled materials. Evacuate area downwind of clean-up operations to minimize dust exposure. Store spilled materials in dry, sealed plastic or metal containers.

CONTAINMENT - Although EkoRok does not contain any known toxic ingredients (including fly ash), for large spills do not release to sewers / waterways, and as much as possible, avoid the generation of dusts.

CLEANUP - Residual amounts of material can be flushed with adequate amounts of water.

SECTION 6 – ACCEDENTAL RELEASE MEASURES

NOT APPLICABLE

SECTION 7 – HANDLING AND STORAGE

HANDLING - Keep in tightly closed containers. Protect containers from physical damage. Avoid direct skin contact with the material.

STORAGE - Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials (See Section 10 for list of incompatible materials). Keep away from moisture.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS - Provide sufficient ventilation to control dust concentrations below exposure limits.

RESPIRATORY PROTECTION - Use NIOSH/MSHA approved respirators if airborne concentration exceeds PEL.

SKIN PROTECTION - Use appropriate gloves to prevent skin contact. Clothing should fully cover arms and legs.

EYE PROTECTION - Eye and face protection requirements will vary dependent upon work environment and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally considered good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

EXPOSURE GUIDELINES OSHA PEL / ACGIH TLV

Crystalline silica - 10 mg/m3 divided by (the percentage of silica in the dust plus 2) (respirable) 0.025 mg/m3

Magnesium Oxide - (Fume - does not apply) 10 mg/m3 (inhalable fraction)

Nuisance dust - 5 mg/m3 (respirable fraction) 3 mg/m3 (respirable fraction) 15 mg/m3 (total dust) 10 mg/m3 (total dust)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE - White, grayish-white, buff or yellowish powder material

ODOR - Odorless

SOLUBILITY IN WATER - Slight

SPECIFIC GRAVITY: 1.63

PH: 7.0 (as mixed with water for use)

SECTION 10 – STABILITY AND REACTIVITY

STABILITY - Chemically stable

MATERIALS TO AVOID - Acids, ammonium salts, aluminum metal

CONDITIONS TO AVOID - None

HAZARDOUS DECOMPOSITION Products - None

SECTION 11 – TOXICOLOGICAL INFORMATION

Inorganic acid: LD50 (oral-rat) >3,000 mg/kg.

Long term animal ingestion studies involving high doses of the inorganic acid have indicated reproductive and developmental effects. The relevance for humans is not known. This product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or crystobalite.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: Not determined.

ENVIRONMENTAL FATE: Not determined.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied, and unmixed, becomes a waste, all ingredients are biodegradable and not considered a hazardous waste as defined under the Resource Conservation and Recovery Act.

SECTION 14 – TRANSPORT INFORMATION

US DOT - Not Regulated

SECTION 15 – REGULATORY INFORMATION

United States - All chemical ingredients are listed on the U.S. TSCA Inventory List.

SECTION 16 – OTHER INFORMATION

HMIS: Health Risks 1*, Flammability 0, Reactivity 0

NFPA: Health Hazard 1, Fire Hazard 0, Reactivity 0

MSDS Status: Original

EkoRok™

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