

Certificate of Compliance Lead Content in Children's Products

Diamond Tech

SAFETY REGULATION CPSI Act of 2008 Public Law 110-314,122 Stat 3016

Contact

Certificate #C13493

Posted: April 15, 2013

Product

Name:

Mosaic Outdoor Cement

50710 P/N: white Color:

10 pounds Size:

Cement used for outdoor projects Description:

LOT#:

KIT COMPONENTS:

Importer

Diamond Tech 5600-C Airport Blvd Tampa, FL 33634 813-806-2923

Manufacturing Information

Medley FL State or Region:

USA Country:

Testing Information

January 30, 2009 Test Date: Marietta GA USA City, State, Country:

Testing Laboratory Name:

Address:

City, State, Country:

Phone:

Applied Technical Services, Incorporated

1049 Triad Court

Marietta, Georgia 30062

770-423-1400

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MSDS for #60999 - MOSAIC STONE CEMENT

MATERIAL SAFETY **DATA SHEET**

FOR Portland Cement



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PRODUCT/COMPANY IDENTIFICATION

Manufacturer's Name & Address:

Titan Cement Company S.A. P.O. Box 18, GR - 19200 Eleisis, Greece

laphona Number for Information:

1.800,782,7622

Calcium Compounds

Chemical Name and Syn

Partland Cement (CAS # 65997-15-1), Hydraulic Cement

This product consists of finely ground portland cement clinker mixed with a small amount of gypsum (calcium sulfate dihydrate)

Trade Name and Synonyms: Titan Cement Type I, I/II

2. EMERGENCY AND FIRST AID

Partiana cement is a light gray or white powder. When in contact with moisture in eyes or an skin, **EMERGENCY INFORMATION:**

or when mixed with water, portland cement becomes highly coustic (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. Use exposure controls or personal protection

methods described in Section 10.

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 coal water and pH-neutral scap or mild detergent and apply skin cream to help in

replacing lost moisture. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: Remove person to freshair. If breathing is difficult, administer axygen. If not breathing, give artificial respiration. Seek medical help if coughing and after symptoms do not subside. Inhalation of large

amounts of portland cement requires immediate medical attention.

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

immediately.

3. COMPOSITION INFORMATION

MAJOR COMPOUNDS:

3CaO . SiO2 Tricatcium silicate CAS # 12168-85-3 2Ca0 . SiO2 Dicalcium silicate CAS # 10034-77-2 3CaO • Al2O3 Tricatcium aluminate CAS # 12042-78-3 4CaO - Al2O3 - Fe2O3 Tetracataium atuminoferrite CAS # 12068-35-8 CaSO4 • 2H2O Calcium sulfate CAS # 7778-18-9 dihydrote (Gypsum) (CAS # 13397-24-5)

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MATERIAL SAFETY DATA SHEET for Portland Cement

4. HAZARDOUS INGREDIENTS

EXPOSURE LIMITS					
	OSHA PEL	ACGIH TLV-TWA	NIOSH REL		
COMPONENT	(8-Hour TWA)	(2001)	(AWT ruoH-8)		
Partland Cement Clinker (CAS #65997-15-1) 90 to 95% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg lolal dust/m³	5 mg respirable dust/m³ 10 mg total dust/m³		
Calcium sulfate (CAS #7778-18-9) (Gypsum (CAS #13397-24-5)) O to 10% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	5 mg respirable dust/m³ 10 mg total dust/m³		
Iron oxide (CAS = 1309-37-1) O to 15% by weight	10mg/m³	5 mg/m³	5 mg/m³		
Calcium carbonate (CAS # 1317-65-3) O to 5% by weight	5 mg respirable dust/m² 15 mg total dust/m²	10 mg tolal dust/m²	5 mg respirable dust/m³ 10 mg total dust/m³		
Magnesium oxide (CAS # 1309-48-4) O to 5% by weight	5 mg respirable dust/m² 15 mg total dust/m²	10 mg (true)\u ₂			
Calcium oxide (CAS # 1306-78-8) O to 5% by weight	5 mg/m³	2 mg/m³	3 mg/w,		
Crystalline silica (CAS = 14808-60-7) O to 0.1% by weight	10 mg of respirable dust/m ³ (%SiO ₂ + 2)	0.05 mg respirable quartz/m³	0.05 mg respirable quartz dust/m³		
	30 mg of total dust/m³ (%SiO ₂ + 2)				

TRACE INGREDIENTS:

Due to the use of substances mined from the earth's crust, trace amounts of naturally-occurring, potentially harmful constituents may be detected during chemical analysis. Portland cement may contain up to 0.75% insoluble residue. A small amount of this residue includes free crystalline silica Portland cement also may contain trace (<0.05%) amounts of chromium salts or compounds (including haxavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. Those metals are present mostly as trace substitutions within the principal minerals. Other trace constituents may include polassium and sodium sultate compounds.

5. HAZARD IDENTIFICATION

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Saction 10.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the comea. Eye contact by larger amounts of dry powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

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for Portland Cement



SKIN CONTACT:

(Acute) Exposure to dry portland cement may cause drying of the skin with consequent mild initiation or more significant effects attributable to oggavation of other conditions. Discomfort or pain cannot be relied upon to

alert a person to a hazardous skin exposure.

(Chronic) Dry portland cement coming in contact with wet skin, or exposure to wet portland 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 altergic response upon exposure to portland cement. The

response may appear in a variety of forms ranging from a mild rash to severe skin ulcers

INHALATION:

(Acute) Exposure to partiand cement may cause imtalian 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 partland cement.

(Chronic) Inhabation exposure to free crystolline silica may cause delayed tung injury including silicasis, a disabling and potentially latal 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:

Portland 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, LARC classifies crystalline silica, a trace constituent, as "carcinogenic to humans" (Group I). MTP has characterized respirable silica as "known to be a human carcinogen." (See also Section 13.)

6. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:

Gray, white or colored Powder, odorless

PHYSICAL STATE:

Solid (Powder)

BOILING POINT:

MELTING POINT:

Not applicable

VAPOR PRESSURE:

Not applicable

VAPOR DENSITY:

Not applicable

pH (IN WATER):

12 to 13

SOLUBILITY IN WATER:

Slightly soluble (0.1% to 1.0%)

(ASTM D 1293-95)

SPECIFIC GRAVITY:

EVAPORATION RATE:

Not applicable

7. FIRE AND EXPLOSION

FLASH POINT:

None

3.15

LOWER EXPLOSIVE LIMT:

None

AUTO IGNITION TEMPERATURE: Not combustible

UPPER EXPLOSIVE LIMIT:

None

FLAMMABLE LIMITS:

Not applicable

SPECIAL FIRE FIGHTING PROCEDURES:

None

EXTINGUISHING MEDIA:

Not combustible

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

HAZARDOUS

COMBUSTION PRODUCTS:

None

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MATERIAL SAFETY DATA SHEET

for Portland Cement



8. STABILITY AND REACTIVITY DATA

Product is stable. Keep dry until used.

Unintentional contact with water. Cantact with water will result in hydration and produces (coustic) calcium CONDITIONS TO AVOID:

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

9. PRECAUTIONS FOR HANDLING, STORAGE, AND DISPOSAL

HAZARDOUS

DECOMPOSITIONS: Will not occur.

HANDLING AND STORAGE: Keep dry until used. Handle and store in a manner so that airbome dust does not exceed applicable exposure

limits. Use adequate ventilation and dust callection. Use exposure control and personal protection methods as

described in Section 10.

Use dry clean-up methods that do not disperse dust into the air or entry Into surface water. Material can be used if SPILL

not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 10

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.

10. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use local exhaust or general dilution ventiation to control dust levels below applicable exposure limits. Minimize

dispersal of dust into the air.

If local or general venification is not adequate to control dust levels below applicable exposure limits or when dust

causes irritation or discomfort, use NIOSH approved respirators.

EYE PROTECTION: Wear safety glasses with side shields or gaggles to avoid contact with the eyes. In extremely dusty environments

and unpredictable environments, wear light-filting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement-containing products.

Wear impervious obrasion-and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry portland cement or clothing dompened

with maisture mixed with portland cement.

11. TRANSPORTATION DATA

SKIN PROTECTION:

Portland cement is not hazardous under U.S. DOT or TOG regulations.

12. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication

Rule 29 CFR 1910.1200:

Portland cement is to be 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.

Portland cement qualifies as a hazardous substance with delayed health effects.

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Status under SARA (Title III), Section 313:

Not subject to reporting requirements under Section 313.

Status under TSCA (as of May 1997):

Some substances in portland cement are on the TSCA inventory list.

Status under the Federal Hazardous Substances Act:

Partland cement is a hazardous substance subject to statutes promulgated under

the subject act.

Status under Canadian Environmental

Protection Act:

Not listed.

Status under Canadian WHMIS:

Portland cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E – Corrosive Material) and subject to the requirements of WHMIS.

13. OTHER INFORMATION

This MSDS provides information on various types of portland cement products. A particular product's composition may vary from sample to sample. The information provided nervin is believed by Roanoke Cement to be accurate at the time of preparation, or prepared from sources believed to be reliable. Health and safety precautions in this data sheet may not be adequate for all individuals or situations. Users have the responsibility to comply with all traves and procedures applicable to the safe handling and use of the product, to determine the sulfability of the product for its intended use, and to understand possible hazards associated with mixing partiand cement with other materials. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT, THE MERCHANTABILITY, OR FITNESS THEREOF FOR ANY PURPOSE, OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY ROANOKE CEMENT.

ABBREVIATIONS

ACGIH -	American Conference of Governmental Industrial Hydlenists		National Institute for Occupational Safety and Health
		NTP -	National Toxicology Program
ASTM -	American Society for Testing and Materials	OSHA -	Occupational Safety and Health Administration
CAS -	Chemical Abstract Service - Comprehensive Environmental Response, Compensation and Liability Act		Permissible Exposure Limit
CERCLA -			Recommended Exposure Limit
CFR -	Code of Federal Regulations	SARA -	Superfund Amendments and Reauthorization Act
Ft* -	Cubic Foat	TDG -	Transportation of Dangerous Goods
IARC -	International Agency for Research on Concer	TLV -	Threshold Limit Value
m, -	Cubic meter	TSCA -	Toxic Substance Control Act
mg -	milligrom	TWA -	Time Weighted Average
MSHA -	Mine Safety and Health Administration	WHMIS -	Workplace Hazerdous Materials Information System

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