



MATERIAL SAFETY DATA SHEET

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DATE: June 11, 1999

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IN CASE OF SPILL EMERGENCY, DAY OR NIGHT, CALL CHEMTREC 1-800-424-9300

SECTION I PRODUCT IDENTIFICATION

IDENTITY: STUCCO BASE-A

SECTION II COMPOSITIONAL INFORMATION

<u>Ingredients</u>	<u>CAS Reg. No.</u>	<u>PEL</u> <u>OSHA</u>	<u>TLV-TWA</u> <u>ACGIH</u>
Portland Cement	65997-15-1	5 mg/m ³ (Resp. Dust) 10 mg/m ³ (Total Dust) 50 mppft ³ (Total Dust)	10 mg/m ³ (Total Dust)
Crystalline silica (quartz) <1%	14808-60-7	10 mg/m ³ (Resp. Dust) 250 mpp/ft ³	0.1 mg/m ³ (Resp Dust)
Trade Secret	n.a.	10 mg/m ³ (Nuisance Dust)	3 mg/m ³ (Resp. Dust) 10 mg/m ³ (Total dust)

Description:

This product consists mostly of finely ground Portland cement clinker mixed with a small amount of gypsum (calcium sulfate dihydrate). The Portland cement clinker is made by heating to a high temperature a mixture of substances such as limestone, sand, clay and shale. Portland cement is essentially hydraulic calcium silicates contained in a crystalline mass, not separable into individual components.

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 hexavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. These metals are present mostly as trace substitutions within the principal minerals. Other trace constituents may include potassium and sodium sulfate compounds.

SECTION III PHYSICAL PROPERTY INFORMATION

Melting Point: n.a.
Boiling Point: >1000°C
Solubility in Water: Slight (0.1-1.0%)
pH: 12-13 (in solution)

Vapor Density (Air=1): n.a.
Vapor Pressure: n.a.
Specific Gravity (Water=1): 2.8-3.15
Evaporation Rate (Butyl/Acetate=1): n.a.

Appearance: Gray powder
Odor: Cement odor

Viscosity: n.a.

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SECTION IV FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point: Non-flammable. Product is non-combustible and non-explosive.

Flammable Limits: n.a.

LEL: n.a.

UEL: n.a.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

SECTION V HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE

Primary routes of entry:

Inhalation – Yes

Skin and Eyes – Yes

Ingestion – No

Potential Health Effects: 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 Section VIII, Personal Protection Information.

Inhalation: (Acute) Exposure to cement may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

(Chronic) Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of cement.

Skin Contact: (Acute) Exposure to dry cement contained in the product may cause drying of the skin with consequent mild irritation or more significant effects attributable to an allergic response upon exposure. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry cement coming in contact with wet skin may cause more severe skin effects, including thickening, cracking, or fissuring of the skin. Prolonged exposure can cause skin damage in the form of chemical (caustic) burns.

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 product may cause effects ranging from moderate eye irritation to chemical burns and blindness.

Carcinogenic Potential: Cements are NOT listed by NTP, IARC, or OSHA as carcinogens. However, since cement is manufactured from raw materials mined from the earth (limestone, marl, sand, shale, clay, etc.) and process heat is provided by burning fossil fuels, trace amounts of naturally occurring, and possible harmful elements may be found during chemical analysis. Under ASTM standards, cement may contain 0.75% insoluble residue. A fraction of these residues may be free crystalline silica.

The National Toxicology Program (NTP) published its sixth annual report on carcinogens in 1992 and concludes respirable crystalline silica may reasonably be anticipated to be a carcinogen.

The International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (Vol. 68, 1997) concludes (with 10 yes and 7 no votes) there is sufficient evidence for the carcinogenicity of inhaled crystalline silica to humans.

EMERGENCY AND FIRST AID PROCEDURES

Irrigate eyes immediately and repeatedly with water and get prompt medical attention. Wash exposed skin areas with soap and water. Apply sterile dressings. If ingested, consult a physician immediately. Drink water.

SECTION VI REACTIVITY INFORMATION

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, this product is incompatible with mineral acids, ammonium salts and aluminum metal.

Hazardous Decomposition: Will not occur.

Hazardous Polymerization: Will not occur.

SECTION VII SPILL OR LEAK PROCEDURE INFORMATION

Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Product 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. Use exposure control and personal protection methods as described in Section VIII. Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Wetted product may be disposed of as common waste in an unrestricted sanitary land fill.

SECTION VIII PERSONAL PROTECTION INFORMATION

Ventilation: Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

Respiratory Protection: In dusty environments, the use of a MSHA/NIOSH approved respirator is recommended.

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 product or other cement containing products.

Hand Protection: Wear abrasion and alkali resistant gloves.

Skin Protection: Wear long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with product or clothing dampened with moisture mixed with product. Launder before re-use. Cement burns with little warning and little heat is sensed by the skin.

SECTION IX STORAGE AND HANDLING INFORMATION

Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits, see Section II. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section VIII.

SECTION X TOXICITY INFORMATION

No applicable data.

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SECTION XI	REGULATORY INFORMATION
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WORKPLACE CLASSIFICATIONS: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200). This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System(WHMIS).

EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3):

Section 311/312 Categorization (40 CFR 370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Section 313 Information (40CFR 372): This product does not contain a chemical which is listed in Section 313 above deminimis concentrations.

CERCLA INFORMATION (40CFR 302.4): Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III 304.

RCRA INFORMATION: When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40 CFR 261).

CHEMICAL CONTROL LAW STATUS: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TRANSPORTATION CLASSIFICATION: US DOT: Hazard Class.....NONREGULATED

HAZARDOUS RATING: (For material as packaged)		SCALE:
Health/Toxicity	1	4 = Extreme
Flammability	0	3 = High
Reactivity	0	2 = Moderate
Personal Protection	E	1 = Slight
		0 = Insignificant

NOTE: HMIS, NFPA, and El Rey ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered. HMIS (Hazardous Materials Identification System) is a registered trademark of the National Paint and Coating Association.

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SECTION XII	ADDITIONAL INFORMATION
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n.e. = Not established; n.a. = Not applicable/not available; n.d. = Not determined; NOS = Not Otherwise Specified; RQ = Reportable Quantity; resp. = Respirable dust; TLV - Threshold Limit Value; PEL = Permissible Exposure Limit; STEL - Short Term Exposure Limits (15 minutes); TWA - Time Weighted Average (8 hour); ANSI - American National Standards Institute; REL - Recommended Exposure Limits (developed by the NIOSH); NIOSH - National Institute for Occupational Safety and Health; OSHA - Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; LEL = Lower Explosive Limit; UEL = Upper Explosive Limit; ppm = parts per million; TSCA = Toxic Substance Control Act; SARA = Superfund Amendments and Reauthorization Act; DOT = Department of Transportation; WHMIS = Workplace Hazardous Materials Information System (Canadian).

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Date: June 11, 1999