



Safety Data Sheet

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I. Identification of the substance/preparation and of the company/undertaking

• Product Details

• Trade Name: Silikal Concrete Screed

PRODUCT CODE: FM-CS

• Application of the substance/the preparation: filler/extender

• Manufacturer/Supplier:

Silikal America

HMIS CODES: H F R P

609B Fertilla ST

3 1 1 E

Carrollton, GA 30117

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II. Hazards Identification

Reportable Components	CAS Number	Vapor Pressure MM HG @ temp		Wt/%
Portland cement ACGIH TLV (1988-89): Total dust containing no asbestos and less than 1% silica : 10 mg/m ³ OSHA PEL: Total dust – 10 mg/m ³ Respirable dust – 5 mg/m ³	65997-15-1	N/A	N/A	10% - 30%
Quartz Quartz: ACGIH TLV 0.1 mg/m ³	14808-60-7	10	1730 °C	60%-80%
Amorphous Silica Amorphous SiO ₂ (OSHA PEL) 20 mppfc (ACGIH TWA) 10 mg m ³	7631-86-9	N/A	N/A	0% - 5%
Naphthalene sulfonic acid Naphthalene sulfonic acid, formaldehyde polymer, sodium salt. 82% PEL: 15 mg/m ³ total dust. 5 mg/m ³ respirable fraction TLV: 10 mg/m ³ nuisance dust	9084-06-04	N/A	N/A	0%-5%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 2230 C

SPECIFIC GRAVITY (H₂O=1): 2.8561

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

COATING V.O.C.: 0.0 lb/gl

MATERIAL V.O.C.: 0.0 lb/gl

SOLUBILITY IN WATER: NIL.

APPEARANCE AND ODOR: Grainy sand, color varies. Odorless.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/D

METHOD USED: N/D

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/D

UPPER: N/D

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES

Non-combustible.

UNUSUAL FIRE AND EXPLOSION HAZARDS



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None

===== SECTION V - REACTIVITY DATA =====

STABILITY: Stable.

CONDITIONS TO AVOID

Prolonged heating above 930 F (500 C) will convert amorphous silica to the crystalline phases.

INCOMPATIBILITY (MATERIALS TO AVOID)

ClF3, MnF3, OF2, hydrofluoric acid, flourides, strong oxidizing agents. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

This product does not decompose.

HAZARDOUS POLYMERIZATION: Will not occur.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Exposure 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. 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.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact with larger amounts may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Exposure may cause drying of the skin with consequent mild irritation or more significant effects attributable to to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. Some individuals may exhibit an allergic response upon exposure. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Gastrointestinal discomfort or ill effects are possible if large quantities are swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Prolonged inhalation of respirable silica will result in permanent lung damage, silicosis.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: Yes OSHA REGULATED:

NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Chronic lung conditions may be aggravated by exposure to high concentrations of dust.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush eyes thoroughly with water for at least 15 minutes, including under eyelids, to remove all particles. Call physician immediately.



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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 require immediate medical attention.

Ingestion: Do NOT induce vomiting. If conscious, have the victim drink large amounts of water and call a physician immediately.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up using approved, dustless methods (vacuum) to minimize generation of respirable silica particles. If dust is generated, use appropriate respiratory protection.

WASTE DISPOSAL METHOD

Material which cannot be recycled into your process should be disposed of in a facility approved for silica in accordance with federal, state and local environmental control regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep dry until used. Handle and store in a manner so that dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use appropriate exposure controls and personal protection.

OTHER PRECAUTIONS

Train all exposed persons in safe and proper handling of silica before they work with this product.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

Use NIOSH approved equipment. Positive pressure supplied air-type recommended. Appropriate respiratory protection for respirable particulates is based on consideration of airborne workplace concentrations and duration of exposure arising from the intended end use. Please refer to the most recent standards of ANSI (Z88.2), OSHA (29CFR 1910.134), MSHA (30 FR Parts 56 & 57), and NIOSH RDL. If you are unsure of the type of respirator to be used, please consult your employer.

VENTILATION

Local mechanical ventilation to keep dust and respirable silica particles safely below the exposure limits.

PROTECTIVE GLOVES

Rubber, cloth or plastic gloves are recommended to reduce skin contact.

EYE PROTECTION

Subject to local safety rules. Recommend wearing safety goggles. Eye wash station should be accessible.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear appropriate clothing to minimize skin contact and abrasion. Wear safety glasses or goggles. Wear a dust mask while handling.

WORK/HYGIENIC PRACTICES

Clean up spills promptly. Do not engage in activities that will generate respirable silica particles. Avoid breathing



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dust. Avoid contact with eyes. Wash eyes out immediately after contact.

===== SECTION IX - DISCLAIMER =====

The product information contained herein is believed to be accurate as of the date of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.