

Material Safety Data Sheet

Prepared in compliance with OSHA 29 CFR 1910.1200, ANSI Z400.1 and WHMIS regulations

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION	

Trade Name SlateScape® 2000 MSDS No. AFC 20-107

Synonym(s) Calcium silicate board Rev. No. 02

Product Use Surface cladding Issue Date June 11, 2012

Manufacturer American Fiber Cement Corporation For Chemical Spills and

6901 S. Pierce St, Suite 260 <u>24-hr. Emergency Information</u>

Littleton, Colorado 80128 U.S.A. CHEMTREC 1-800-424-9300

Telephone No. 1-800-688-8677 **Outside the US Call** 1-703-741-5500

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Conc. (%)	ACGIH-TLV	OSHA-PEL
Calcium silicate	1344-95-2	50 - 75	10 mg/m³	5 mg/m^3 $10 \text{ mg/m}^3/(\%\text{SiO}_2+2)$ None $\geq 0.5 \text{ mg/m}^3$
Crystalline silica (quartz)	14808-60-7	20 - 30	0.025 mg/m³	
Natural organic fibers	65996-61-4	4 - 8	None	
Organic and inorganic pigments	Proprietary	< 4	≥ 0.5 mg/m³	

Notes: (1) TLV and PEL values are 8-hour time-weighted averages for respirable dust, unless otherwise specified. (2) * = total dust

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product contains trace amounts of crystalline silica, a chronic health hazard by inhalation. Prolonged exposure to crystalline silica may cause permanent and irreversible lung damage, including silicosis, and increase the risk of lung cancer, kidney and liver damage. Silicosis is a rapidly progressive, non-cancerous lung disease that is often fatal. Symptoms include shortness of breath, cough, fever, weight-loss and chest pain.

Crystalline silica, inhaled in the form of quartz and/or cristobalite, has been classified as a known human carcinogen (Group 1) by the International Agency for Research on Cancer (IARC), and as a suspected human carcinogen (Group 2A) by the Association of Governmental Industrial Hygienists (ACGIH).

NFPA Rating Health 1 Fire 0 Reactivity 0 Special Hazard 0

HMIS Rating Health 2 Fire 0 Reactivity 0 PPE Code E

Hazard Category Acute (Immediate) Health Hazard; Chronic (Delayed) Health Hazard

Routes of Entry Lungs and respiratory system via respirable dust (inhalation), and eyes via coarse dust

and particulates.

Target Organs Lungs, respiratory system, and eyes.

MSDS US/CAN-EN Page 1 / 6

SECTION 3 HAZARDS IDENTIFICATION

Signs and Symptoms of Overexposure

Inhalation Respirable airborne particulates may cause transitory irritation to the lungs and upper

respiratory system. Symptoms of overexposure may include shortness of breath,

coughing and chest pain.

Long-term exposure to product dust may cause dryness and/or irritation. **Skin Contact**

Eye Contact Product dust is a mechanical irritant which may cause moderate to severe eye irritation

and dryness.

Ingestion Non-hazardous when ingested. May cause mild irritation to the gastro-intestinal (GI)

tract and mouth if excessive quantities are ingested.

Medical Conditions Aggravated by **Exposure**

Medical conditions which may be aggravated by exposure to this product include, dry skin and/or dermatitis, and pre-existing chronic upper respiratory and lung diseases such as bronchitis, emphysema and asthma. Cigarette smoking may increase the risk of silicosis, bronchitis, pneumoconiosis, and lung cancer in persons also exposed to

crystalline silica.

FIRST AID MEASURES SECTION 4

Inhalation Remove to fresh air. Drink plenty of water, and blow nose to evacuate remaining dust.

If coughing and irritation develop seek medical attention.

Eye Contact Flush with large amounts of water until irritation subsides, at least 15 minutes. Seek

medical attention if irritation persists.

Skin Contact Perform normal, good hygiene practices. Wash with mild soap and warm water after

each exposure.

Emergency first-aid procedures are not normally required following ingestion. However, Ingestion

this product may cause temporary irritation to the gastro-intestinal (GI) tract and mouth if

excessive quantities are ingested.

SECTION 5 FIRE FIGHTING MEASURES

Flammable Properties and Explosive Limits

Flash Point Non-flammable. Upper Flam. Limit Not applicable.

Autoignition Not applicable. Lower Flam. Limit Not applicable.

Extinguishing Media Dry chemical, carbon dioxide (CO₂), water fog, or foam.

Fire and Explosion

Hazard

This product is non-flammable and does not pose a significant fire or explosion hazard.

Hazardous Products

of Combustion

During initial exposure to service temperatures, smoke may be emitted which can cause

transitory irritation to the lungs and upper respiratory system.

Special Firefighting Equipment

No special firefighting equipment is necessary. Use extinguishing media appropriate for

the surrounding fire. Firefighters should wear protective clothing and use a self-

contained breathing apparatus (SCBA).

MSDS US/CAN-EN Page 2 / 6

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

If dusty conditions exist (i.e., during cutting, sanding or milling), wear a NIOSH-approved dust mask, such as the 3M 8511 N-95 or equivalent.

Environmental Precautions

Environmental precautions are not normally required. This product does not pose a significant threat to the environment.

Clean-Up Procedures Before clean-up, wet down dust and debris with a fine water spray to suppress airborne particulates. Pick up, shovel or sweep material into an approved waste disposal container. Use equipment fitted with a high-efficiency particulate (HEPA) filter to vacuum clean dust.

SECTION 7 HANDLING AND STORAGE

Handling Precautions

Calcium silicate boards do not present a hazard in their intact state. Assure proper respiratory protection during cutting, milling or sanding, or if the dust potential exceeds the established TLV/PEL. Refer to Exposure Controls and Personal Protection in Section 8 for further information.

Storage Requirements

Store in a cool, dry, well ventilated area away from food and beverages. Keep away from reactive materials and always separate materials by hazard class. Refer to Stability and Reactivity in Section 10 for incompatibility information and conditions to avoid.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Maintain sufficient mechanical or natural ventilation to assure dust concentrations remain below the established TLV/PEL. Use local exhaust if necessary. Power equipment used during cutting, sanding or milling should be fitted with a properly designed dust collection device.

Respiratory Protection

Wear a NIOSH-approved dust mask (i.e., 3M 8511 N-95 or equivalent) to limit exposure to product dust. Respiratory selection should be based on the level of exposure as measured by dust sampling. Concentrations that exceed the recommended dust mask limits may require a higher level of protection, such as a half-mask respirator with appropriate dust filters.



Eye Protection

Wear safety glasses with side shields, goggles or face-shield when cutting, milling or sanding to protect eyes from dust and airborne particulates. Selection and use of eye protection should comply with ANSI Z87.1-1-1989 and applicable OSHA standards.







Skin Protection

Under normal conditions, protective gloves and a clean body covering are sufficient. Direct skin contact with dust and debris can be further minimized by wearing long-sleeved shirts and long trousers.





MSDS US/CAN-EN Page 3 / 6

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form Rigid boards of various size Odor No characteristic odor

Color Various **Odor Threshold** Not available.

Specific Gravity 1.5 pH Not available.

Boiling Point Not available. Density @ 68° F (20° C) 1700 kg/m³

Melting Point > 2300° F (1260° C) Vapor Pressure Not available.

Evaporation Rate Not available. % **Volatile by Vol. / Wt.** Not available.

Solubility in Water Insoluble Viscosity Not available.

SECTION 10 STABILITY AND REACTIVITY

Stability This product is stable under normal conditions of use.

Incompatibility Crystalline silica is incompatible with hydrofluoric acid, fluorine, chloride trifluoride and

oxygen difluoride.

Conditions to Avoid Avoid strong acids and ammonium salts. Contact with powerful oxidizing agents (i.e.,

fluorine, chlorine trifluoride) may present a fire hazard.

Hazardous Polymerization

Hazardous polymerization will not occur.

Hazardous Products of Decomposition

Crystalline silica will dissolve in hydrofluoric acid and produce silicon tetrafluoride, a

corrosive gas.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological Hazards

This product contains crystalline silica. Long-term overexposure to respirable crystalline silica may cause permanent and irreversible lung damage, including silicosis, and

increase the risk of lung cancer, kidney and liver damage. Silicosis is a rapidly

progressive, non-cancerous lung disease that is often fatal.

Carcinogenicity Crystalline silica, inhaled in the form of quartz and/or cristobalite, has been classified as

a known human carcinogen (Group 1) by the International Agency for Research on Cancer (IARC), and as a suspected human carcinogen (Group 2A) by the Association of

Governmental Industrial Hygienists (ACGIH).

Sensitization This product is not considered a sensitization hazard.

Teratogenic Effects This product is not considered a teratogenic hazard.

Mutagenic Effects This product is not considered a mutagenic hazard.

Reproductive System Toxicity This product is not considered hazardous. Reproductive system effects are not expected

to occur.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Unless contaminated in service, this product is not considered hazardous to aquatic life.

BOD5 / COD No additional information is available.

MSDS US/CAN-EN Page 4 / 6

SECTION 12 ECOLOGICAL INFORMATION

Products of Biodegradation

No additional information is available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Method May be disposed in an approved landfill in accordance with local, state and federal

regulations. If this product has become contaminated in service, place in an approved hazardous waste container. Seal and properly label the container, and send to a Transportation, Storage and Disposal (TSD) facility via an approved waste hauler.

SECTION 14 TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Shipping Name Not a U.S. Department of Transportation (DOT) controlled substance.

Hazard Class Not applicable. UN/NA Number Not applicable.

Label / Placard Not applicable. Packing Group Not applicable.

Special Provisions This product does not require special transport provisions.

SECTION 15 REGULATORY INFORMATION

TSCA Inventory All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory.

California Prop. 65 This product contains the following substances known to the State of California to cause

cancer: Crystalline silica

State RTK Lists Crystalline silica (quartz), (CAS No.: 14808-60-7): MA, MN, NJ, PA, RI

CERCLA Reportable

Quantity (RQ)

Does not contain any hazardous substances in excess of the CERCLA de minimis

reportable quantity.

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 302 / 304 This product does not contain any Extremely Hazardous Substances (EHS) as defined

and listed under SARA Title III, Sections 302 and 304.

Section 311 / 312 This product meets the following EPA Hazard Categories as defined and listed under

SARA Title III, Sections 311 and 312:

Acute Hazard Yes
Chronic Hazard Yes
Fire Hazard No
Reactivity Hazard No
Pressure Hazard No

Section 313 This product does not contain any substances subject to the reporting requirements of

SARA Title III, Section 313.

MSDS US/CAN-EN Page 5 / 6

SECTION 15 REGULATORY INFORMATION

Other Regulatory Classifications

DSL (Canada) All ingredients are listed, or exempt from inclusion, on the Canadian Domestic

Substances List (DSL).

WHMIS (Canada) Class D-2A: Material causing other toxic effects. Very Toxic - Chronic



This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 OTHER INFORMATION

Reason for Issue WHMIS update Issue Date June 11, 2012

Prepared By Compliance Consulting Group (CCG) Supersedes Date July 15, 2008

Revision History June 11, 2012: WHMIS CPR compliance statement added to Section 15; new

categories added to Section 11; Emergency overview text modified;

ACGIH-TLV for crystalline silica changed to 0.025 mg/m3.

July 15, 2008: WHMIS update; format revision; MSDS numbering convention.

DISCLAIMER

American Fiber Cement Corporation (AFCC) believes the information contained in this Materials Safety Data Sheet (MSDS) to be accurate and reliable as of the date of issue, and is provided in good faith as a service to our customers and to comply with applicable Federal and State laws. This document is intended as a guide for the safe handling, storage and use of this material under normal conditions of use. No representation, warranty or guarantee, either express of implied, is intended or given. AFCC does not accept liability for any loss, injury or damage resulting from the use of this product.

MSDS US/CAN-EN Page 6 / 6