

SECTION 1

Material Safety Data Sheet

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

Trade Name	Minerit [®] HD (Heavy Duty)	MSDS No.	AFC 20-102
Synonym(s)	Fiber cement board	Rev. No.	02
Product Use	Heavy duty façade boards	Issue Date	June 11, 2012
Manufacturer	American Fiber Cement Corporation	For Ch	nemical Spills and
	6901 S. Pierce St, Suite 260	24-hr. Emerg	gency Information
	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

PRODUCT AND COMPANY IDENTIFICATION

Chemical Name	CAS No.	Conc. (%)	ACGIH-TLV	OSHA-PEL
Cement	65997-15-1	40 - 80	10 mg/m ³	50 mppcf
Cellulose	9004-34-6	5 – 15	10 mg/m ³	15 mg/m ³
Limestone	1317-65-3	10 – 50	None	None
Polyvinyl alcohol	9002-89-5	< 2	None	None

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 is not considered hazardous under normal conditions of use. Airborne particulates created during cutting, milling and sanding are considered nuisance dust, and should be minimized through the use of proper work practices and adequate ventilation.

NFPA Rating	Health	0	Fire	0	Reactivity	0	Special Hazard	0
HMIS Rating	Health	1	Fire	0	Reactivity	0	PPE Code	Е
Hazard Category	Acute (Immediate) 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.

Signs and Symptoms of Overexposure

Inhalation Irritating to the mucous membranes and lungs. Excessive exposure to dust may cause sore throat, coughing and upper respiratory irritation.

SECTION 3 HAZARDS IDENTIFICATION

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

- **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 ConditionsMedical 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.

SECTION 4 FIRST AID MEASURES

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.		
Ingestion	Emergency first-aid procedures are not normally required following ingestion. However, 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 (CO ₂), 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	None expected.					
Special Firefighting Equipment	No special firefighting equipment is the surrounding fire. Firefighters sh contained breathing apparatus (SCE	ould wear protective c				

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.			

SECTION 6 ACCIDENTAL RELEASE MEASURES

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

HandlingFiber cement boards do not present a hazard in their intact state. Assure properPrecautionsFiber cement boards do not present a hazard in their intact state. Assure properPrecautionsrespiratory 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.

StorageStore in a cool, dry, well ventilated area away from food and beverages. Keep awayRequirementsfrom 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 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.



Trade Name: Minerit® HD (Heavy Duty)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Solid, thin boards	Odor	No characteristic odor
Color	Gray	Odor Threshold	Not available.
Specific Gravity	1.5	рН	~ 11*
Boiling Point	Not available.	Density @ 68° F (20° C)	1700 kg/m ³
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.

* pH reduction to neutral with 5 to 10 years.

SECTION 10 STABILITY AND REACTIVITY

Incompatibility Limestone is incompatible with acids and ammonium salts.

- **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 Hazardous polymerization will not occur. Polymerization

Hazardous Products Decomposition of residual organic fibers will emit carbon monoxide (CO) and carbon dioxide (CO₂) fumes during initial exposure to service temperatures.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological Hazards	No toxicological studies of this product have been performed. Refer to the Hazards Identification in Section 3 for additional health-related information.
Carcinogenicity	The ingredients in this product are not considered carcinogenic.
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.

Products ofNo additional information is available.Biodegradation

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 Does not contain any substances known to the State of California to cause cancer.

State RTK Lists Not listed.

CERCLA Reportable 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	No
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.

Other Regulatory Classifications

- **DSL (Canada)** All ingredients are listed, or exempt from inclusion, on the Canadian Domestic Substances List (DSL).
- WHMIS (Canada) Not classified as a hazardous product

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 OTHE	ER INFORMATION			
Reason for Issue	WHMIS update		Issue Date	June 11, 2012
Prepared By	Compliance Cor	nsulting Group (CCG)	Supersedes Date	July 15, 2008
Revision History	June 11, 2012:	WHMIS CPR compliance categories added to Sectior		
	July 15, 2008:	WHMIS update; format revi	sion; MSDS numbering o	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.