



BNZ Materials, Inc.

Material Safety Data Sheet

ZelieBlok[®] 2000, ZelieBlok[®] 2000S

Section 1 Product and Company Identification

Trade Name	ZelieBlok[®] 2000, ZelieBlok[®] 2000S	MSDS No.	BNZ 60-102
Product	Calcium silicate board	Revision No.	01
Manufacturer	BNZ Materials, Inc.	Issue Date	July 15, 2009
Address	6901 S. Pierce St, Suite 260 Littleton, Colorado 80128 U.S.A.	Technical Support	800-688-8677
		CHEMTREC	800-424-9300
		<i>Outside the US Call</i>	703-741-5500

Section 2 Composition / Information on Ingredients

Chemical Name	CAS No.	Weight (%)	TLV (ACGIH)	PEL (OSHA)
Synthetic calcium silicate (containing):	--	94 – 98	--	--
Calcium silicate	1344-95-2	--	10 mg/m ³	15 mg/m ³
Xonolite	12141-77-4	--	None	None
Natural calcium silicate	13983-17-0	Proprietary	3 mg/m ³	5 mg/m ³
Cellulose fiber	None	2 – 4	None	None
Calcite	13397-26-7	0 – 2	10 mg/m ³	5 mg/m ³

Note: (1) TLV and PEL values are 8-hour time-weighted averages for respirable dust, unless otherwise specified. (2) The TLV values are for particulate matter containing no asbestos and <1% crystalline silica. (3) * = 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
HMS Rating	Health 1	Fire 0	Reactivity 0	PPE Code E
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 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.
Carcinogenicity	The ingredients in this product are not considered carcinogenic.

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

NFPA Classification Not classified by the National Fire Protection Agency (NFPA).

Flammable Properties and Explosive Limits

Flash Point	Non-flammable.
Autoignition	N/A
UFL / UEL	N/A
LFL / LEL	N/A
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 and/or explosion hazard.
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).
Hazardous Products of Combustion	None known.

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 <i>Exposure Controls and Personal Protection</i> 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 <i>Stability and Reactivity</i> 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 and fibers. 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.
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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.
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Section 9 Physical and Chemical Properties

Physical Form	Solid insulation boards	Odor	No characteristic odor
Color	Gray	Odor Threshold	N/A
Specific Gravity	1.5	pH	8
Boiling Point	2453° F (1345° C)	Density @ 68° F (20° C)	225 kg/m ³
Melting Point	N/A	Vapor Pressure	N/A
Evaporation Rate	N/A	% Volatile by Vol. / Wt.	N/A
Solubility in Water	Insoluble	Viscosity	N/A

Section 10 Stability and Reactivity

Stability	This product is stable under normal conditions of use.
Incompatibility	None in designed use.
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	Will not occur.
Hazardous Products of Decomposition	Decomposition of residual organic fibers will emit carbon monoxide (CO) and carbon dioxide (CO ₂) fumes during initial exposure to service temperatures.

Section 11 Toxicological Information

Toxicological Hazards	No toxicological studies of this product have been performed. For other health-related information refer to the <i>Hazards Identification</i> in Section 3 of this MSDS.
Teratogenic Effects	No additional information is available.
Mutagenic Effects	No additional information is available.

Section 12 Ecological Information

Ecotoxicity	Most ingredients in this product are naturally occurring minerals and, unless contaminated in service, are not hazardous to the environment.
BOD5 / COD	No additional information is available.
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.
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Section 14 Transportation Information**U.S. Department of Transportation (DOT)**

Shipping Name	Not a U.S. Department of Transportation (DOT) controlled substance.		
Hazard Class	N/A	UN / NA Number	N/A
Label / Placard	N/A	Packing Group	N/A

International Dangerous Goods Information

ICAO	Not regulated as a dangerous code according to the International Civil Aviation Organization (ICAO) technical instructions.
IMO / IMDG	Not regulated as a dangerous code according to the International Maritime Organization's (IMO) dangerous goods code.
TDG / TDGA	Not regulated as a dangerous code according to the Canadian Transportation of Dangerous Goods (TDG) Act.

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.
DSL (Canada)	All ingredients are listed, or exempt from inclusion, on the Canadian Domestic Substances List (DSL).
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 contains the following Extremely Hazardous Substances (EHS) as defined and listed under SARA Title III, Sections 302 and 304:

<u>Chemical Name</u>	<u>Sec. 302 TPQ</u>	<u>Section 304 RQ</u>
None		

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 contains the following substances subject to the reporting requirements of SARA Title III, Section 313:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Weight (%)</u>
None		

Section 15 Regulatory Information**Other Regulatory Classifications**

California Proposition 65	This product does not contain any substances known to the State of California to cause cancer.
State RTK Lists	Not Listed
WHMIS (Canada)	Not Listed
DSCL (Europe)	Not Listed

Section 16 Other Information

Reason for Issue	WHMIS update and format revision	Issue Date	July 15, 2009
Prepared By	CCG, Inc.	Supersedes Date	All previous
Revision History	None		

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