

# **Material Safety Data Sheet**

24-hr. Emergency Information

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

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name ZelieBlok® 2000, ZelieBlok® 2000S MSDS No. BNZ 60-102

Synonym(s) Calcium silicate slab insulation Rev. No. 02

Product Use Block insulation Issue Date June 11, 2012

Manufacturer BNZ Materials, Inc. For Chemical Spills and

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# SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

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

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 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.

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#### **SECTION 3 HAZARDS IDENTIFICATION**

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

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

and dryness.

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

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.

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

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.

#### **FIRE FIGHTING MEASURES SECTION 5**

#### 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<sub>2</sub>), water fog, or foam.

Fire and Explosion

Hazard

This product is non-flammable and does not pose a significant fire 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 None known.

of Combustion

#### **ACCIDENTAL RELEASE MEASURES SECTION 6**

Personal

If dusty conditions exist (i.e., during cutting, sanding or milling), wear a NIOSH-approved

**Precautions** dust mask, such as the 3M 8511 N-95 or equivalent.

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

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 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.







### **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 Not available.

Specific Gravity 1.5 pH 8

**Boiling Point** 2453° F (1345° C) **Density @ 68° F (20° C)** 225 kg/m<sup>3</sup>

Melting Point Not available. 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** 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

Hazardous polymerization will not occur.

Hazardous Products of Decomposition

Decomposition of residual organic fibers will emit carbon monoxide (CO) and carbon

dioxide (CO<sub>2</sub>) 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 Hazards Identification in Section 3 of this MSDS.

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

System Toxicity 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 of Biodegradation

No additional information is available.

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### **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

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 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.

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.

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# **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

EH&S Services for BNZ Materials, Inc.

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

categories added to Section 11; Emergency overview text modified.

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

#### **DISCLAIMER**

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