

# MATERIAL SAFETY DATA SHEET

Page: 1 of 6  
MSDS No.  
Date Created: February 27, 2017  
Supercedes: NA

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Barnwood Blue  
**General Use:** Construction Finishing Material  
**Product Description:** Natural Fine to Medium Grained Light and Dark Gray Colored Natural Stone

### MANUFACTURER

Buechel Stone Company  
N4399 Hwy 175 South  
Fond du Lac, WI 54937-9266  
[www.buechelstone.com](http://www.buechelstone.com)  
800-236-4473

### EMERGENCY TELEPHONE NUMBER:

1-800-424-9300 CHEMTREC

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

#### GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid/Solid	Not Applicable
Aspiration Toxicity	Not Applicable
Skin Irritation	No Classification Under GHS
Eye Irritation	No Classification Under GHS
Carcinogenicity	Category 1 - Crystalline Silica
Specific Organ Toxicity Repeated Exposure	Category 1 - Crystalline Silica
Specific Organ Toxicity Single Exposure	No Classification Under GHS
Reproductive Toxicity	No Classification Under GHS
Acute Toxicity	No Classification Under GHS
Germ Cell mutagenicity	No Classification Under GHS
Hazardous to the aquatic environment	No Classification Under GHS

Hazard Category - means the division of criteria within each hazard class, e.g. acute toxicity includes five hazard categories and flammable liquids include four hazard categories. These categories compare hazard severity within a hazard class. "GHS Classification of Substance" means the material hazard class under that particular category and should not be taken as a comparison of hazard categories more generally. Degree of severity under GHS is "1" being the most severe and sequential numbers indicating correspondingly less severity. "Not Classified Under GHS" does not have characteristics that fall into any of the categories for that hazard class.

#### GHS LABEL ELEMENTS



### DANGER

#### Hazard Statements

H350 May cause cancer (inhalation of dust)

H372 - Causes damage to the lungs through prolonged and repeated exposure to dust

#### Precautionary Statements

**Prevention:** P261 - Avoid breathing dust.

**Response:** P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 - If eye irritation persists: Get medical advice/attention.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Storage/Disposal:** None Applicable

**UN GHS** **ACCORDING TO THE GLOBALLY HARMONIZED STANDARD FOR CLASSIFICATION AND LABELING (GHS) THIS PRODUCT IS CONSIDERED HAZARDOUS BASED ON CRYSTALLINE SILICA CONTENT**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt %</u>	<u>CAS Registry #</u>
naturally occurring silicate minerals	<95	Mixed
Crystalline Silica	>5	14808-60-7

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### 4. FIRST AID MEASURES

#### INHALATION:

Move person to fresh air. If respiratory irritation persists, seek medical attention.

#### EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes. Flush under eyelids. If eye irritation persists, seek medical attention.

#### SKIN CONTACT:

In case of skin contact, immediately rinse skin with plenty of water. If clothing becomes contaminated, remove immediately to prevent fire and exposure hazard. If skin irritation persists, seek medical attention.

#### INGESTION:

Not expected to be a significant route of exposure. If a significant quantity is ingested, seek medical advice before proceeding with any first aid measures.

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### 5. FIRE FIGHTING MEASURES

**Flashpoint and Method:** Not Applicable

**Flammable Limits:** Not Applicable

**Autoignition Temperature:** Not Applicable

#### GENERAL HAZARD:

Product is a natural stone which is non-flammable

#### FIRE FIGHTING INSTRUCTIONS:

Use extinguishing media appropriate for the fire. This product is not expected to contribute fuel to the fire or be significantly altered by a fire.

**FIRE FIGHTING EQUIPMENT:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of any SCBA

**FURTHER INFORMATION:**

None

**HAZARDOUS COMBUSTION PRODUCTS:**

None

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## 6. ACCIDENTAL RELEASE MEASURES

**LAND SPILL RESPONSE:**

Material is a naturally occurring mineral. Accidental releases can be physically removed from the site using equipment appropriate for the task.

**WATER SPILL:**

Not expected to be an important accidental release route. Material is a naturally occurring mineral. Remove material from water system using methods available at the site.

**RECOMMENDED DISPOSAL:**

Product is a naturally occurring stone material and not a hazardous waste if disposed of without adding any other materials. Other materials may change its waste characterization. Characterize at time of disposal.

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## 7. HANDLING AND STORAGE

**STORAGE TEMPERATURE:** Ambient

**STORAGE PRESSURE:** Atmospheric

**GENERAL:**

Avoid creating dust. Avoid skin and eye contact with the dust.  
Provide an eye wash in locations where dust is expected to be created.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)		
	OSHA PEL	ACGIH TLV	NIOSH REL
Crystalline Silica	0.05 mg/M <sup>3</sup> respir	0.025 mg/M <sup>3</sup> respir	0.05 mg/M <sup>3</sup> respir
Calcium Magnesium Carbonate	15 mg/M <sup>3</sup> total	10 mg/M <sup>3</sup> total	10 mg/M <sup>3</sup> total
Nuisance Dust		5 mg/M <sup>3</sup> resp	5 mg/M <sup>3</sup> resp

**ENGINEERING CONTROLS:**

Use adequate ventilation and wet methods to maintain dust levels of this product below exposure limits.

**PERSONAL PROTECTION:**

Respiratory protection suitable for crystalline silica exposure is recommended when performing activities likely to produce airborne dust. Dust is abrasive and alkaline. Use suitable hand protection when working with stone.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Vapor Pressure:</b>	Not Applicable	<b>Vapor Density:</b>	Not Applicable
<b>Specific Gravity:</b>	Unknown	<b>Evaporation Rate:</b>	Not Applicable
<b>Solubility in Water:</b>	Negligible	<b>Freezing Point:</b>	Not Applicable
<b>pH:</b>	Dust will be alkaline	<b>Odor:</b>	none
<b>Boiling Point:</b>	Not Applicable	<b>Appearance:</b>	Light and dark gray, fine to medium grained
<b>Viscosity:</b>	Not Applicable	<b>Physical State:</b>	solid
<b>Flash Point:</b>	Not Applicable	<b>Flammable Range:</b>	Not Applicable

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## 10. STABILITY AND REACTIVITY

### GENERAL:

Stable under normal temperatures and pressures.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Acids; reactive fluoridated, brominated or phosphorus compounds; aluminum (may form hydrogen gas); ammonium salts, mercury, hydrogen, magnesium, reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds. Reacts with acids to form calcium and magnesium salts while generating heat.

### HAZARDOUS DECOMPOSITION:

Calcium oxide and Magnesium oxide

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## 11. TOXICOLOGICAL INFORMATION

### TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Crystalline Silica	LD50 - Oral	22,500 mg/kg	Rat

### ROUTES OF ENTRY:

Primarily into the respiratory and gastrointestinal tract as a dust.

### CHRONIC EFFECTS ON HUMANS:

**Eyes:** May cause irritation with discomfort or pain, local redness and swelling of the conjunctiva.

**Skin:** causes skin irritation

**Respiratory:** the major concern is silicosis caused by the inhalation and retention of respirable crystalline silica dust portion of the stone. Chronic or ordinary silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable dust containing crystalline silica. The International Agency for Research on Cancer (IARC) concluded that there was sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources, and that there is sufficient evidence in humans for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I).

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12. ECOLOGICAL INFORMATION

Species	Test Information	Concentration	Stat Sig Level	Component
Carp	Ave LC50	>10,000 mg/L/72 hr	Not Acutely toxic	Crystalline Silica

PRODUCTS OF BIODEGRADATION:

The product is a natural stone and has very low solubility in water. This material shows no bioaccumulation effect or food chain concentration toxicity.

13. DISPOSAL CONSIDERATIONS

Not identified as RCRA hazardous waste. Dispose of in accordance with local, state, federal regulations.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to transportation regulations.

Mode of Transportation	Domestic Surface (USDOT)	Domestic Air	International Air (IATA)
UN Number	NA	NA	NA
Proper Shipping Name			
Hazard Class			
Packing Group			
Hazard Label			
Handling Label(s)			
ERG#:			
Packaging Instructions:			

15. REGULATORY INFORMATION

Chemical Inventory Status

Stone is a naturally occurring material. The individual minerals will appear on individual registries.

SARA Section 302 - Emergency Planning Notification - Not listed

SARA Section 304 - Emergency Release Notification. Not Listed.

SARA Section 313 - Toxics Release Inventory (TRI) - Not Listed.

CERCLA - Hazardous Substance - Not Listed.

RCRA Hazardous Waste Classification - Not classified.

California Proposition 65: This product contains crystalline silica known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer/supplier to provide this warning in the absence of definitive testing to prove the defined risks do not exist. It should be noted that this product contains crystalline silica in its mineral matrix and is expected to release crystalline silica in its dust.

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION

Health: 1  
Fire: 0  
Reactivity: 0

CREATION/REVISION SUMMARY:

Created on February 27, 2017  
Cheryl Sykora, CIH, CSP,CHMM  
LEGEND TECHNICAL SERVICES, INC.  
88 Empire Drive  
Saint Paul, Minnesota 55103  
651-221-4085

THE INFORMATION RELATES TO THIS SPECIFIC INFORMATION. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

# MATERIAL SAFETY DATA SHEET

Page: 1 of 6  
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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Highland Scotch  
**General Use:** Construction Finishing Material  
**Product Description:** Tan and Gray, Very Fine to Medium Grained Natural Stone

### MANUFACTURER

Buechel Stone Company  
N4399 Hwy 175 South  
Fond du Lac, WI 54937-9266  
[www.buechelstone.com](http://www.buechelstone.com)  
800-236-4473

### EMERGENCY TELEPHONE NUMBER:

1-800-424-9300 CHEMTREC

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

#### GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid/Solid	Not Applicable
Aspiration Toxicity	Not Applicable
Skin Irritation	No Classification Under GHS
Eye Irritation	No Classification Under GHS
Carcinogenicity	Category 1 - Crystalline Silica
Specific Organ Toxicity Repeated Exposure	Category 1 - Crystalline Silica
Specific Organ Toxicity Single Exposure	No Classification Under GHS
Reproductive Toxicity	No Classification Under GHS
Acute Toxicity	No Classification Under GHS
Germ Cell mutagenicity	No Classification Under GHS
Hazardous to the aquatic environment	No Classification Under GHS

Hazard Category - means the division of criteria within each hazard class, e.g. acute toxicity includes five hazard categories and flammable liquids include four hazard categories. These categories compare hazard severity within a hazard class. "GHS Classification of Substance" means the material hazard class under that particular category and should not be taken as a comparison of hazard categories more generally. Degree of severity under GHS is "1" being the most severe and sequential numbers indicating correspondingly less severity. "Not Classified Under GHS" does not have characteristics that fall into any of the categories for that hazard class.

#### GHS LABEL ELEMENTS



### DANGER

#### Hazard Statements

H350 May cause cancer (inhalation of dust)

H372 - Causes damage to the lungs through prolonged and repeated exposure to dust

#### Precautionary Statements

**Prevention:** P261 - Avoid breathing dust.

**Response:** P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 - If eye irritation persists: Get medical advice/attention.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Storage/Disposal:** None Applicable

#### UN GHS

**ACCORDING TO THE GLOBALLY HARMONIZED STANDARD FOR  
CLASSIFICATION AND LABELING (GHS) THIS PRODUCT IS CONSIDERED  
HAZARDOUS BASED ON CRYSTALLINE SILICA CONTENT**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt %</u>	<u>CAS Registry #</u>
naturally occurring silicate minerals	<95	Mixed
Crystalline Silica	>5	14808-60-7

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### 4. FIRST AID MEASURES

#### INHALATION:

Move person to fresh air. If respiratory irritation persists, seek medical attention.

#### EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes. Flush under eyelids. If eye irritation persists, seek medical attention.

#### SKIN CONTACT:

In case of skin contact, immediately rinse skin with plenty of water. If clothing becomes contaminated, remove immediately to prevent fire and exposure hazard. If skin irritation persists, seek medical attention.

#### INGESTION:

Not expected to be a significant route of exposure. If a significant quantity is ingested, seek medical advice before proceeding with any first aid measures.

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### 5. FIRE FIGHTING MEASURES

**Flashpoint and Method:** Not Applicable

**Flammable Limits:** Not Applicable

**Autoignition Temperature:** Not Applicable

#### GENERAL HAZARD:

Product is a natural stone which is non-flammable

#### FIRE FIGHTING INSTRUCTIONS:

Use extinguishing media appropriate for the fire. This product is not expected to contribute fuel to the fire or be significantly altered by a fire.



**FIRE FIGHTING EQUIPMENT:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of any SCBA

**FURTHER INFORMATION:**

None

**HAZARDOUS COMBUSTION PRODUCTS:**

None

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## 6. ACCIDENTAL RELEASE MEASURES

**LAND SPILL RESPONSE:**

Material is a naturally occurring mineral. Accidental releases can be physically removed from the site using equipment appropriate for the task.

**WATER SPILL:**

Not expected to be an important accidental release route. Material is a naturally occurring mineral. Remove material from water system using methods available at the site.

**RECOMMENDED DISPOSAL:**

Product is a naturally occurring stone material and not a hazardous waste if disposed of without adding any other materials. Other materials may change its waste characterization. Characterize at time of disposal.

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## 7. HANDLING AND STORAGE

**STORAGE TEMPERATURE:** Ambient

**STORAGE PRESSURE:** Atmospheric

**GENERAL:**

Avoid creating dust. Avoid skin and eye contact with the dust.  
Provide an eye wash in locations where dust is expected to be created.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

<u>Component</u>	<b>EXPOSURE LIMITS 8 hrs TWA (ppm)</b>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>
Crystalline Silica	0.05 mg/M <sup>3</sup> respir	0.025 mg/M <sup>3</sup> respir	0.05 mg/M <sup>3</sup> respir
Calcium Magnesium Carbonate	15 mg/M <sup>3</sup> total	10 mg/M <sup>3</sup> total	10 mg/M <sup>3</sup> total
Nuisance Dust		5 mg/M <sup>3</sup> resp	5 mg/M <sup>3</sup> resp

**ENGINEERING CONTROLS:**

Use adequate ventilation and wet methods to maintain dust levels of this product below exposure limits.

**PERSONAL PROTECTION:**

Respiratory protection suitable for crystalline silica exposure is recommended when performing activities likely to produce airborne dust. Dust is abrasive and alkaline. Use suitable hand protection when working with stone.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Vapor Pressure:</b>	Not Applicable	<b>Vapor Density:</b>	Not Applicable
<b>Specific Gravity:</b>	Unknown	<b>Evaporation Rate:</b>	Not Applicable
<b>Solubility in Water:</b>	Negligible	<b>Freezing Point:</b>	Not Applicable
<b>pH:</b>	Dust will be alkaline	<b>Odor:</b>	none
<b>Boiling Point:</b>	Not Applicable	<b>Appearance:</b>	Tan and Gray; very fine to medium grained
<b>Viscosity:</b>	Not Applicable	<b>Physical State:</b>	solid
<b>Flash Point:</b>	Not Applicable	<b>Flammable Range:</b>	Not Applicable

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## 10. STABILITY AND REACTIVITY

### GENERAL:

Stable under normal temperatures and pressures.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Acids; reactive fluoridated, brominated or phosphorus compounds; aluminum (may form hydrogen gas); ammonium salts, mercury, hydrogen, magnesium, reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds. Reacts with acids to form calcium and magnesium salts while generating heat.

### HAZARDOUS DECOMPOSITION:

Calcium oxide and Magnesium oxide

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## 11. TOXICOLOGICAL INFORMATION

### TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Crystalline Silica	LD50 - Oral	22,500 mg/kg	Rat

### ROUTES OF ENTRY:

Primarily into the respiratory and gastrointestinal tract as a dust.

### CHRONIC EFFECTS ON HUMANS:

**Eyes:** May cause irritation with discomfort or pain, local redness and swelling of the conjunctiva.

**Skin:** causes skin irritation

**Respiratory:** the major concern is silicosis caused by the inhalation and retention of respirable crystalline silica dust portion of the stone. Chronic or ordinary silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable dust containing crystalline silica. The International Agency for Research on Cancer (IARC) concluded that there was sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources, and that there is sufficient evidence in humans for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I).

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12. ECOLOGICAL INFORMATION

Species	Test Information	Concentration	Stat Sig Level	Component
Carp	Ave LC50	>10,000 mg/L/72 hr	Not Acutely toxic	Crystalline Silica

PRODUCTS OF BIODEGRADATION:

The product is a natural stone and has very low solubility in water. This material shows no bioaccumulation effect or food chain concentration toxicity.

13. DISPOSAL CONSIDERATIONS

Not identified as RCRA hazardous waste. Dispose of in accordance with local, state, federal regulations.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to transportation regulations.

Mode of Transportation	Domestic Surface (USDOT)	Domestic Air	International Air (IATA)
UN Number	NA	NA	NA
Proper Shipping Name			
Hazard Class			
Packing Group			
Hazard Label			
Handling Label(s)			
ERG#:			
Packaging Instructions:			

15. REGULATORY INFORMATION

Chemical Inventory Status

Stone is a naturally occurring material. The individual minerals will appear on individual registries.

- SARA Section 302 - Emergency Planning Notification - Not listed
- SARA Section 304 - Emergency Release Notification. Not Listed.
- SARA Section 313 - Toxics Release Inventory (TRI) - Not Listed.
- CERCLA - Hazardous Substance - Not Listed.
- RCRA Hazardous Waste Classification - Not classified.

**California Proposition 65:** This product contains crystalline silica known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer/supplier to provide this warning in the absence of definitive testing to prove the defined risks do not exist. It should be noted that this product contains crystalline silica in its mineral matrix and is expected to release crystalline silica in its dust.

## 16. OTHER INFORMATION

### NATIONAL FIRE PROTECTION ASSOCIATION

Health: 1  
Fire: 0  
Reactivity: 0

#### CREATION/REVISION SUMMARY:

Created on February 27, 2017

Cheryl Sykora, CIH, CSP, CHMM  
LEGEND TECHNICAL SERVICES, INC.  
88 Empire Drive  
Saint Paul, Minnesota 55103  
651-221-4085

THE INFORMATION RELATES TO THIS SPECIFIC INFORMATION. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.