

Safety Data Sheet

Firestone Building Products Company

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Channel Venting Base

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

CLP • Carcinogenicity 1B - H350
Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label Elements

CLP

DANGER

Hazard statements • H350 - May cause cancer.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P281 - Use personal protective equipment as required.

Response • P308+P313 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- P314 - Get medical advice/attention if you feel unwell.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
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United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Carcinogenicity 1B
Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- May cause cancer.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.
-

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

- WHMIS**
- Other Toxic Effects - D2A

2.2 Label elements

WHMIS



- WHMIS**
- Other Toxic Effects - D2A

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).
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Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Petroleum asphalt, oxidized	CAS:64742-93-4 EINECS:265-196-4	14% TO 45%	NDA	EU CLP: Carc. 1B, H350 OSHA HCS 2012: Carc. 1B	NDA
Crushed minerals	NDA	30% TO 45%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Limestone	CAS:1317-65-3 EC Number:215-279-6	5% TO 40%	NDA	EU CLP: STOT RE 2, H373 (Lung, Inhl) OSHA HCS 2012: STOT RE 2 (Lung, Inhl)	NDA
Quartz	CAS:14808-60-7 EC Number:238-878-4	5% TO 25%	NDA	EU CLP: Carc. 1A, H350i; STOT RE 1, H372 (Lungs, Inhl) OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA
Glass, oxide, chemicals	CAS:65997-17-3 EC Number:266-046-0	1% TO 5%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Rinse mouth. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Alcohol foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Burning of this product will produce thick black smoke. Treat as hydrocarbon type fire. Hot asphalt may ignite flammable materials on contact. DO NOT direct water into a container or directly onto hot asphalt, a vessel or a storage tank containing asphalt as it may cause violent eruptions and spreading of hot asphalt.

Hazardous Combustion Products • Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide. Other undetermined compounds could be released in small quantities.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Cool fire exposed containers with water.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Emergency Procedures • No special emergency procedures are expected to be needed as this material is a solid sheet.

6.2 Environmental precautions

- Follow best practices with picking up pieces and disposing of properly.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Pick up large pieces. Sweep and scoop up material and put into a suitable container for disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Store in a well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
Result	ACGIH	Belgium	Canada Alberta	Canada British Columbia	Canada Manitoba	

Glass, oxide, chemicals	TWAs	1 fiber/cm ³ TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i>	10 mg/m ³ TWA (dust and fiber)	1 fibre/cm ³ TWA <i>as Glass wool fiber</i>	1 fibre/cm ³ TWA (fibres >5 µm, with an aspect ratio of ≥3:1, as determined by the membrane filter method at 400-450 times magnification (4 mm objective), using phase-contrast illumination, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i>	1 fiber/cm ³ TWA (length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, respirable fibers, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i>
Quartz (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.1 mg/m ³ TWA (alveolar dust)	0.025 mg/m ³ TWA (respirable particulate)	0.025 mg/m ³ TWA (respirable)	0.025 mg/m ³ TWA (respirable fraction)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable fraction)	Not established
	STELs	Not established	Not established	Not established	20 mg/m ³ STEL (total dust)	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Glass, oxide, chemicals	TWAs	1 fibre/cm ³ TWA (fibres >5 µm with a diameter <3 µm, aspect ratio >5:1) <i>as Glass wool fiber</i>	1 fibre/cm ³ TWA (respirable fibers, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i>	1 fiber/cm ³ TWA (length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, respirable fibers, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i>	3 fibre/cm ³ TWA (with a diameter ≤3.5 µm and a length ≥10 µm); 5 mg/m ³ TWA (total mass) <i>as Glass wool fiber</i>	1 fibre/cm ³ TWA (fibres >5 µm in length and an aspect ratio ≥3:1 as determined by the membrane filter method at 400-450 times magnification (4 -mm objective), using phase-contrast illumination, respirable, listed under Synthetic Vitreous Fibres (Man Made Mineral Fibres)) <i>as Glass wool fiber</i>
	STELs	Not established	3 fibre/cm ³ STEL (respirable fibers, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i>	Not established	Not established	Not established
Quartz (14808-60-7)	TWAs	0.1 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable fraction, listed under Silica - crystalline)	0.025 mg/m ³ TWA (respirable fraction)	0.1 mg/m ³ TWA (respirable mass); 0.3 mg/m ³ TWA (total mass)	0.10 mg/m ³ TWA (designated substances regulation, respirable, listed under Silica, crystalline)

Limestone (1317-65-3)	TWAs	10 mg/m ³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	10 mg/m ³ TWA	Not established	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)	Not established
	STELs	Not established	20 mg/m ³ STEL	Not established	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	Denmark	NIOSH
Glass, oxide, chemicals	TWAs	1 fibre/cm ³ TWAEV (respirable, listed under Fibres - Artificial Vitreous Mineral Fibres) <i>as Glass wool fiber</i>	1 fibre/cm ³ TWA (respirable fibres, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i>	30 mppcf TWA (dust or fibrous); 10 mg/m ³ TWA (dust or fibrous)	1 fibre/cm ³ TWA <i>as Glass wool fiber</i>	3 fiber/cm ³ TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m ³ TWA (total) <i>as Glass wool fiber</i>
Quartz (14808-60-7)	TWAs	0.1 mg/m ³ TWAEV (respirable dust)	0.05 mg/m ³ TWA (respirable fraction, listed under Silica - crystalline)	300 particle/mL TWA (listed under Silica)	0.3 mg/m ³ TWA (total); 0.1 mg/m ³ TWA (respirable)	0.05 mg/m ³ TWA (respirable dust)
Limestone (1317-65-3)	TWAs	10 mg/m ³ TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m ³ TWA	30 mppcf TWA; 10 mg/m ³ TWA	Not established	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
	STELs	Not established	Not established	20 mg/m ³ STEL	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	OSHA				
Limestone (1317-65-3)	TWAs	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)				

Exposure Control Notations

Canada Ontario

- Quartz (14808-60-7): **Designated Substances:** (0.10 mg/m³ TWA (respirable fraction, listed under Silica, crystalline))

Canada Quebec

- Quartz (14808-60-7): **Carcinogens:** (C2 carcinogen - effect suspected in humans)

ACGIH

- Glass, oxide, chemicals as Glass wool fiber: **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Synthetic vitreous fibers))
- Quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

Germany DFG

- Quartz (14808-60-7): **Carcinogens:** (Category 1 (causes cancer in man, alveola fraction))

Exposure Limits Supplemental

OSHA

- Quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO₂ + 2) mg/m³ TWA, total dust; (250)/(%SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO₂ + 2) mg/m³ TWA, respirable fraction)

ACGIH

- Quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

8.2 Exposure controls

Engineering Measures/Controls

- This material is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- Where respiratory protection is needed to control personnel exposures, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 certified respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

STEL = Short Term Exposure Limits are based on 15-minute exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black solid sheet with granules on one side and sand on the other with mild petroleum odor.
Color	Black	Odor	Mild petroleum odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	> 538 °C(> 1000.4 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.1 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		
Flammability			
Flash Point	> 279 °C(> 534.2 °F) COC (Cleveland Open Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	> 343 °C(> 649.4 °F)
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization not indicated.

10.4 Conditions to avoid

- Do not allow hot, molten asphalt to contact water as this may cause violent eruptions and spreading of hot asphalt.

10.5 Incompatible materials

- Strong oxidizing agents and water.

10.6 Hazardous decomposition products

- Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Glass, oxide, chemicals (1% TO 5%)	65997-17-3	<p>Multi-dose Toxicity: Inhalation-Rat TCLo • 16 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes;</i></p> <p>Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 2 µg/cm³; Other mutation test systems • Unreported Route-Hamster • Ovary (Somatic cell) • 10 mg/L;</p> <p>Tumorigen / Carcinogen: Inhalation-Rat TCLo • 5 mg/m³ 7 Hour(s) 90 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Blood:Leukemia</i></p>
Quartz (5% TO 25%)	14808-60-7	<p>Acute Toxicity: Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea;</i> Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe;</i></p> <p>Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</i> Inhalation-Rat TCLo • 6.2 mg/m³ 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes; Blood:Changes in spleen; Immunological Including Allergic:Increase in cellular immune response;</i> Inhalation-Rat TCLo • 80 mg/m³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Blood:Changes in spleen; Immunological Including Allergic:Decrease in cellular immune response;</i></p> <p>Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm³; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm³;</p> <p>Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i></p>
Limestone (5% TO 40%)	1317-65-3	<p>Multi-dose Toxicity: Inhalation-Rat TCLo • 84 mg/m³ 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat TCLo • 250 mg/m³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i></p>

GHS Properties

Classification

Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Carcinogenicity 1B OSHA HCS 2012 • Carcinogenicity 1B
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects

Inhalation

Acute (Immediate)

- Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

- Prolonged and repeated exposure to crystalline silica containing dust can result in injury to the lungs. This condition is known as silicosis. Silicosis is characterized by the shortness of breath, decreased expansion of the chest, dry cough, leading to fatigue, dyspnea, and cyanosis, loss of appetite, pleuritic pain and decreased work capacity.

Skin

Acute (Immediate)

- Mechanical irritation of the skin/skin abrasion may occur characterized by itching or redness.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Mechanical irritation of the eye may occur characterized by itching or redness.

Chronic (Delayed)

- No data available.

Ingestion

Acute (Immediate)

- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed)

- No data available.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Glass, oxide, chemicals as Glass wool fiber	NDA	Not Listed	Reasonably Anticipated to be Human Carcinogen

Petroleum asphalt, oxidized	64742-93-4	Group 2A-Probable Carcinogen	Not Listed
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Key to abbreviations

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- These products are not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
ADN	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
ADR/RID	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk

- Data lacking.

according to Annex II of
Marpol and the IBC Code

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Glass, oxide, chemicals	65997-17-3	No	No	No
Limestone	1317-65-3	Yes	Yes	Yes
Petroleum asphalt, oxidized	64742-93-4	No	Yes	No
Quartz	14808-60-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Glass, oxide, chemicals	65997-17-3	Yes	No	Yes	No	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes
Petroleum asphalt, oxidized	64742-93-4	Yes	No	Yes	No	Yes
Quartz	14808-60-7	Yes	No	Yes	No	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
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• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	D2A
• Glass, oxide, chemicals	65997-17-3	Not Listed
		D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)
• Quartz	14808-60-7	

Canada - WHMIS - Ingredient Disclosure List

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	1 %

Environment

Canada - CEPA - Priority Substances List

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Germany**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Environment**Germany - TA Luft - Types and Classes**

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed

• Quartz	14808-60-7	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	317, not considered hazardous to water
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	849, not considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	ID Number 849, not considered hazardous to water

United States

Labor		
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed

• Quartz	14808-60-7	carcinogen, 10/1/1988 (airborne particles of respirable size)
U.S. - California - Proposition 65 - Developmental Toxicity		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

United States - Pennsylvania

Labor		
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Petroleum asphalt, oxidized	64742-93-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Glass, oxide, chemicals	65997-17-3	Not Listed
• Quartz	14808-60-7	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

- Revision Date**
- 24/January/2018
- Preparation Date**
- 08/December/2015
- Other Information**
- Changes to this revision: Updated mailing address.
- Disclaimer/Statement of Liability**
- The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company, LLC assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No data available