### **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** 

• APP Polyester Series: APP 160, APP 160 COOL, APP 170, APP

170 COOL, APP 180, APP 180 COOL, APP 180P

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

• (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]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

CLP
 Specific Target Organ Toxicity Repeated Exposure 1 - H372

**DSD/DPD** • Harmful (Xn)

R48/20

### 2.2 Label Elements

**CLP** 

### **DANGER**



**Hazard statements** • H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

**Prevention** • P260 - Do not breathe dust, fume, gas, mist, vapours and/or spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

**Response** • P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



Risk phrases • R48/20 - Harmful: danger of serious damage to health by prolonged exposure through

2.3 Other Hazards

**CLP** According to Regulation (EC) No. 1272/2008 (CLP) this material is considered

hazardous.

DSD/DPD According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

**OSHA HCS 2012** 

### **DANGER**



**Hazard statements** • Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

Do not breathe dust, fume, gas, mist, vapours and/or spray. Prevention •

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

**Response** • 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

**WHMIS** 

According to: WHMIS

#### 2.1 Classification of the substance or mixture

**WHMIS** · Other Toxic Effects - D2B

2.2 Label elements



**WHMIS** Other Toxic Effects - D2B

2.3 Other hazards

**WHMIS** 

 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

# 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			
Asphalt	CAS:8052-42-4 EINECS:232-490-9	40% TO 60%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Inhalation-Rat LC50 • >94.4 mg/m³	EU DSD/DPD: Skin Irrit. 2, H315 EU CLP: Xi R38 OSHA HCS 2012: Skin Irrit. 2	NDA			
Limestone	CAS:1317-65-3 EC Number:215- 279-6	< 25%	NDA	EU DSD/DPD: Xn; R48/20 EU CLP: STOT RE 1 (Lung, Inhl), H372 OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)	NDA			
Quartz	CAS:14808-60-7 EC Number:238- 878-4	< 10%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA			

See Section 16 for full text of H-statements and R-phrases.

#### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

Inhalation

 Remove to fresh air, apply artificial respiration and/or oxygen if necessary and get medical attention.

Skin

 Remove contaminated clothing and wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

Eye

 If foreign matter enters eyes, immediately flush with large amounts of water for at least 15 minutes or until irritation subsides. If irritation develops, or persists, seek medical attention.

Ingestion

 Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.

## 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 • Use water, foam, CO2 or dry chemical extinguishers to contain fire.

Unsuitable Extinguishing Media

No data available.

**Firefighting Procedures** 

Fire fighters should avoid inhaling any combustion products.

### 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

• Burning of this product will produce thick black smoke.

Hazardous Combustion Products

• Carbon dioxide, carbon monoxide and partially burned carbon.

## 5.3 Advice for firefighters

 Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

#### 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 emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

## 6.2 Environmental precautions

· Avoid run off to waterways and sewers.

# 6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

 Pick up large pieces. Vacuum dust. If sweeping is necessary, use a dust suppressant such as water. These procedures will help to minimize potential exposures. Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

#### 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

Avoid breathing dusts or fumes generated from cutting or heating this material. Use
this product with adequate ventilation. Always wash work clothes separately from
other clothing. Wash thoroughly after handling. Use personal protective equipment as
described in Section 8.

# 7.2 Conditions for safe storage, including any incompatibilities

alkalis.

Storage

• Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition.

Special Packaging Materials •

**Incompatible Materials or Ignition Sources** 

No data available.
This product will react with strong oxidizing agents, reducing agents, strong acids and

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	s/Guidelines		
	Result	ACGIH	Australia	Belgium	Canada Alberta	Canada British Columbia
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.1 mg/m3 TWA (respirable dust)	0.1 mg/m3 TWA (alveolar dust)	0.025 mg/m3 TWA (respirable particulate)	0.025 mg/m3 TWA (respirable)
Limestone	TWAs	Not established	Not established	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)
(1317-65-3)	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL (total dust)
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as benzene soluble aerosol)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (Petroleum; Bitumen, fume)	0.5 mg/m3 TWA (inhalable fume, as Benzene-soluble aerosol)
		Ex	xposure Limits/Gu	idelines (Con't.)		
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.1 mg/m3 TWA (respirable fraction)	0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)	0.025 mg/m3 TWA (respirable fraction)	0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	Not established	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (petroleum fumes)	5 mg/m3 TWA (Petroleum fumes)	0.5 mg/m3 TWA (fume, inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (Petroleum fumes)
	STELs	Not established	Not established	10 mg/m3 STEL (Petroleum fumes)	Not established	10 mg/m3 STEL (Petroleum fumes)
		Ex	kposure Limits/Gu	idelines (Con't.)		
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
	STELs	Not established	Not established	Not established	Not established	2 mg/m3 STEL (containing 10-50% free SiO2, total dust); 1.4 mg/m3 STEL (containing 50-80% free SiO2, total dust); 1 mg/m3 STEL (containing >80% free SiO2, total dust); 1.4 mg/m3 STEL (containing 10-50% free SiO2, respirable dust); 0.6 mg/m3 STEL (containing 50-80% free SiO2, respirable dust); 0.4 mg/m3 STEL (containing >80%

Quartz (14808-60-7)								free SiO2, respirable dust)		
(14000-00-1)	TWAs	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)		0.1 mg/m3 TWAEV (respirable dust)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	300 particle/mL TWA (listed under Silica)		0.7 mg/m3 TWA (containing 50-80% free SiO2, total dust); 0.3 mg/m3 TWA (containing 50-80% free SiO2, respirable dust); 1 mg/m3 TWA (containing 10-50% free SiO2, total dust); 0.7 mg/m3 TWA (containing 10-50% free SiO2, respirable dust); 0.5 mg/m3 TWA (containing >80% free SiO2, total dust); 0.2 mg/m3 TWA (containing >80% free SiO2, respirable dust)		
	STELs			Not established		Not established	Not established	20 mg/m3 STEL		16 mg/m3 STEL (total dust); 8 mg/m3 STEL (respirable dust)
Limestone (1317-65-3)	TWAs			10 mg/m3 TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA; 10 mg/m3 TWA		8 mg/m3 TWA (total dust); 4 mg/m3 TWA (respirable dust)		
Application	STELs	Not establish	ed	Not established	Not established	10 mg/m3 STEL (fume)		12.5 mg/m3 STEL (fume, as Benzene soluble matter)		
Aspnait (8052-42-4)	Asphalt (8052-42-4) TWAs TWAs Benzaero		ble, as	5 mg/m3 TWAEV (fume)	0.5 mg/m3 TWA (fume and inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 T\	NA (fume)	5 mg/m3 TWA (fume, as Benzene soluble matter)		
			E	xposure Limits/Gu						
		Result		Denmark	NIOSH			OSHA		
Quartz (14808-60-7)		TWAs	TWAs 0.3 mg/m3 TWA (total); 0.1 mg/m3 TWA (respirable)		0.05 mg/m3 TWA (res dust)	0.05 mg/m3 TWA (respirable dust) Not		ished		
Limestone (1317-65-3)		TWAs	Not esta	blished				TWA (total dust); 5 VA (respirable fraction)		
Asphalt (8052-42-4)		TWAs		TWA (Cyclohexane of total dust, fume)	Not established	Not established		Not established		
(5552 42-4)		Ceilings	Not esta	blished	5 mg/m3 Ceiling (fume	5 mg/m3 Ceiling (fume, 15 min) Not estab		ished		

#### **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**

•Asphalt (8052-42-4): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free))

•Quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

### **Germany DFG**

- •Asphalt (8052-42-4): **Carcinogens:** (Category 2 (considered to be carcinogenic for man, aerosol and vapour)) | **Skin:** (skin notation (aerosol and vapour))
- •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**

•Asphalt (8052-42-4): BEIs: (Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)) |

TLV Basis - Critical Effects: (eye and upper respiratory tract irritation (fume))

•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 suffice. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

#### **Personal Protective Equipment**

Respiratory

 Respiratory protection is not normally required. Use a NIOSH certified respirator when the exposure limits are exceeded. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Eye/Face

· Safety glasses with side shields should be worn at a minimum.

Hands

Leather or cotton gloves may be worn to prevent skin contact and irritation.

Skin/Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

General Industrial Hygiene Considerations

• Use good industrial hygiene practices in handling this material.

**Environmental Exposure Controls** 

Follow best practice for site management and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

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

BEI = Biological Exposure Indices

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

Occupational Safety and Health

= Administration

TWAEV = Time-Weighted Average Exposure Value

# Section 9 - Physical and Chemical Properties

# 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Polyester-reinforced, polymer- modified asphaltic material with sand, ceramic granules and/or plastic film covered surfaces and an asphalt odor. Various colors available.
Color	Various colors.	Odor	Asphalt odor.
Odor Threshold	Data lacking		
General Properties		-	-
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking

Specific Gravity/Relative Density	Data lacking	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
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 conditions of use.

# 10.3 Possibility of hazardous reactions

· Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

Incompatible materials.

# 10.5 Incompatible materials

 This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

# 10.6 Hazardous decomposition products

• Burning will produce smoke, carbon monoxide, and carbon dioxide.

# Section 11 - Toxicological Information

# 11.1 Information on toxicological effects

	Components						
Asphalt (40% TO 60%)	8052- 42-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Gastrointestinal:Hypermotility, diarrhea; Inhalation-Rat LC50 • >94.4 mg/m³;  Mutagen: Micronucleus test • Unreported Route-Rat • Other Cell Type • 57.8 μg/L;  Tumorigen / Carcinogen: Skin-Mouse TDLo • 905 g/kg 2 Year(s)-Intermittent; Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors					
Limestone (< 25%)	1317- 65-3	Multi-dose Toxicity: Inhalation-Rat TCLo • 84 mg/m³ 4 Hour(s) 40 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Inhalation-Rat TCLo • 250 mg/m³ 2 Hour(s) 24 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)					
Quartz (< 10%)	14808- 60-7	Acute Toxicity: Inhalation-Rat TCLo • 1 mg/kg; Lungs, Thorax, or Respiration:Other changes; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation; Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm³; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s) 71 Week(s)-Intermittent;					

#### Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors

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 • Data lacking OSHA HCS 2012 • Data lacking
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)

Chronic (Delayed)

- Temporary irritation of nose and throat may occur.
- This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer. This product also contains petroleum asphalt. If heated, there is limited evidence that derivatives of asphalt fumes may cause carcinogenic effects in animals. There is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans.

#### 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)

Ingestion of this product unlikely.

Chronic (Delayed)

No data available.

Carcinogenic Effects

When used under normal conditions, this product is not considered a carcinogen.

Based upon the newly published IARC classifications for bitumen/asphalt fumes, it has been determined that the IARC carcinogen designation does not apply to this material as it does not contain material identified by IARC. This product contains crystalline silica. IARC Monographs on Evaluation of Carcinogenic Risk of Chemicals to Humans (Monograph 68, 1997) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans, IARC (Group I). Crystalline Silica is classified as a Known Carcinogen according to the NTP.

Carcinogenic Effects						
	CAS IARC NTP					
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen			

#### Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

# **Section 12 - Ecological Information**

## 12.1 Toxicity

· No information available for the product.

# 12.2 Persistence and degradability

No information available for the product.

## 12.3 Bioaccumulative potential

No information available for the product.

# 12.4 Mobility in Soil

· No information available for the product.

#### 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

#### 12.6 Other adverse effects

**Ecological Fate** 

No information available for the product.

#### 12.7 Other Information

• This product has not been tested. Based on information related to all raw materials in the finished product it is not expected to harm ecosystems through its applied use.

# Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

**Product waste** 

 Dispose of content and/or container 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	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

**14.6 Special precautions for** • None specified. user

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code · Data lacking.

# **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							
Asphalt	8052-42-4	Yes	Yes	Yes			
Limestone	1317-65-3	Yes	Yes	Yes			
Quartz	14808-60-7	Yes	Yes	Yes			

					Inventory				
Component	CAS	;	Canada D	SL	Canada NDSL	China	EU EIN	ECS	EU ELNICS
Asphalt	8052-42	-4	Yes		No	Yes	Ye	3	No
Limestone	1317-65	-3	No		Yes	Yes	Ye	3	No
Quartz	14808-6	60-7 Yes			No	Yes	Ye	S	No
					Inventory (Co	n't.)			
Componer	nt		CAS		Japan ENCS	Korea K	ECL		TSCA
Asphalt 8052-42-4			Yes Yes		Yes				
Limestone 1317-65-3			Yes	Yes		Yes			
Quartz		14808	3-60-7		Yes	Yes		Yes	

### **Australia**

Labor Australia - Work Health and Safety Regulations - Hazardous	S Substances Requiring Health Monitoring	ng
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
		Demographic, medical and occupational history; Records of personal exposure; Standardised respiratory
• Quartz	14808-60-7	questionnaire to be completed; Standardised respiratory

function test, for example, FEV1, FVC and FEV1/FVC; Chest X-ray full size PA view

Australia - High Volume Industrial Chemicals List		
• Asphalt	8052-42-4	
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	
Australia - List of Designated Hazardous Substances - Classification		
Asphalt	8052-42-4	Self classification required (petroleum fumes)
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Self classification required
Environment		
Australia - National Pollutant Inventory (NPI) Substance List	0050 40 4	N. details
Asphalt     Limestone	8052-42-4	Not Listed
Quartz	1317-65-3 14808-60-7	Not Listed Not Listed
		1101 2.0100
Australia - Ozone Protection Act - Scheduled Substances		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Australia - Priority Existing Chemical Program		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Belgium		
Labor		
Belgium - Substances and Preparations - Carcinogens and Mutagens  • Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Bulgaria -		
Environment  Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels	- 24 Hour	
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels	- 30 Minute	
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
	14808-60-7	Not Listed
• Quartz	14000-00-7	NOT LISTED

#### Canada

Asphalt

Quartz

• Limestone

Not Listed

Not Listed

Not Listed

8052-42-4

1317-65-3

14808-60-7

Labor

Canada - WHMIS - Classifications of Substances		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	D2A
• Quartz	14808-60-7	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.)
Canada - WHMIS - Ingredient Disclosure List		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	1 %
Environment		
Canada - CEPA - Priority Substances List	8052-42-4	Not Listed
Asphalt     Limestone	1317-65-3	Not Listed Not Listed
• Quartz	14808-60-7	Not Listed
· Qualitz	14000-00-1	Not Listed
China		
Other China - Annex I & II - Controlled Chemicals Lists		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Denmark		
Environment		
Denmark - List of Undesirable Substances - Product Groups/Function	0050 40 4	N
• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Europe		
Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed

Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
Quartz	14808-60-7	Not Listed
Asphalt	8052-42-4	Not Listed
J - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Ph		Not Listed
imestone	1317-65-3	Not Listed
Quartz	14808-60-7	Not Listed

### Germany

remany - Immission Control - Qualifying Quantities for Major Accident Prevention  - Asphalt - Limestone - Asphalt - Sermany - Immission Control - Qualifying Quantities for Safety Reporting - Asphalt - Limestone - Quartz - Asphalt - Limestone - Quartz - Mot Listed - Mot List	Definition in the second of th		
- Asphalt	Labor Germany - Immission Control - Qualifying Quantities for Major Accident Prever	ntion	
Limestone			Not Listed
Quartz	• Limestone		
- Asphalt - Limestone - Limestone - Limestone - Couartz - Careful Couarty - Careful	• Quartz		
- Asphalt - Limestone - Limestone - Limestone - Couartz - Careful Couarty - Careful	Germany - Immission Control - Qualifying Quantities for Safety Reporting		
Quartz	• Asphalt	8052-42-4	Not Listed
### PROPRIET	• Limestone	1317-65-3	Not Listed
• Asphalt • Limestone • Limestone • Cuartz  Asphalt • Limestone • Quartz  Asphalt • Limestone • Asphalt • Limestone • Cuartz  Asphalt • Limestone • Cuartz  Asphalt • Limestone • Cuartz • Asphalt • Limestone • Quartz • Asphalt • Limestone • Quartz • Asphalt • Limestone • Quartz • Asphalt • Limestone • Asphalt	• Quartz	14808-60-7	Not Listed
Limestone	Germany - TRGS 505 - Specific Lead Regulations		
Quartz	Asphalt	8052-42-4	Not Listed
### Asphalt	• Limestone	1317-65-3	Not Listed
• Asphalt	• Quartz	14808-60-7	Not Listed
Limestone	Germany - TRGS 511 - Specific Ammonium Nitrate Regulations		
* Quartz 14808-60-7 Not Listed **  Invironment ** Itermany - TA Luft - Types and Classes **  * Asphalt 8052-42-4 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Quartz 14808-60-7 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Asphalt 8052-42-4 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Apphalt 8052-42-4 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Apphalt 8052-42-4 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Apphalt 8052-42-4 Not Listed **  * Apphalt 8052-42-4 Not Listed **  * Limestone 1317-65-3 Not Listed **  * Apphalt 8052-42-4 Not Listed **  * Appha	• Asphalt	8052-42-4	Not Listed
Environment learmany - TA Luft - Types and Classes  - Asphalt - Limestone - Quartz - Limestone - Asphalt - Limestone - Quartz - Luft - Emission Limits for Carcinogenic Substances - Asphalt - Limestone - Quartz - Luft - Emission Limits for Fibers - Asphalt - Limestone - Quartz - Luft - Emission Limits for Fibers - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Quartz - Luft - Emission Limits for Inorganic Dusts - Asphalt - Limestone - Asphalt - Asphalt - A	• Limestone	1317-65-3	Not Listed
Asphalt 8052-42-4 Not Listed Limestone 1317-65-3 Not Listed Quartz 14808-60-7 Not Listed Asphalt 8052-42-4 Not Listed Quartz 14808-60-7 Not Listed Asphalt 8052-42-4 Not Listed Limestone 1317-65-3 Not Listed Limestone 1317-65-3 Not Listed Quartz 14808-60-7 Not Listed  Asphalt 8052-42-4 Not Listed Limestone 1317-65-3 Not Listed	• Quartz	14808-60-7	Not Listed
Asphalt Limestone Quartz Limestone Quartz Limestone Asphalt Limestone Asphalt Limestone Asphalt Asphal	Environment Germany - TA Luft - Types and Classes		
Limestone Quartz  Quartz  14808-60-7  Not Listed 14808-60-7  Not Listed  14808-60-7  Not Listed  14808-60-7  Not Listed  14808-60-7  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  14808-60-7  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  1317-65-3  Not Listed  14808-60-7  Not Listed		8052-42-4	Not Listed
• Quartz  • Quartz  • Quartz  • Asphalt • Limestone • Asphalt • Limestone • Asphalt • Limestone • Asphalt • Limestone • Quartz  • Asphalt • Limestone • Quartz  • Asphalt • Limestone • Asphalt • Limestone • Asphalt • Limestone • Quartz  • Asphalt • Limestone • Quartz  • Limestone • Quartz  • Quartz  • Quartz  • Quartz  • Asphalt • Limestone • Quartz  • Quartz  • Quartz  • Out Listed • Not Listed • Not Listed • Not Listed • Not Listed • Quartz	• Limestone	1317-65-3	Not Listed
Asphalt Limestone Quartz  Asphalt Limestone Quartz  Asphalt  Asphalt Limestone Asphalt Limestone Asphalt Limestone Limestone Quartz  Asphalt Limestone Asphalt Limestone Asphalt Limestone Asphalt Limestone Asphalt A	• Quartz	14808-60-7	Not Listed
Limestone 1317-65-3 Not Listed 14808-60-7 Not Listed 1317-65-3 Not Listed 1317-65-3 Not Listed 14808-60-7 Not Listed 14808-60-7 Not Listed 14808-60-7 Not Listed 14808-60-7 Not Listed 1317-65-3 Not Listed 14808-60-7 Not Listed 14808-60-7 Not Listed 14808-60-7 Not Listed	Germany - TA Luft - Emission Limits for Carcinogenic Substances		
• Quartz  Itermany - TA Luft - Emission Limits for Fibers • Asphalt • Limestone • Quartz  Itermany - TA Luft - Emission Limits for Inorganic Dusts • Asphalt • Limestone • Quartz  Itermany - TA Luft - Emission Limits for Inorganic Dusts • Asphalt • Limestone • Quartz  Itermany - TA Luft - Emission Limits for Inorganic Dusts • Asphalt • Limestone • Quartz  Iterative Most Listed • Quartz  Iterative Most Listed • Not Listed • Quartz  Iterative Most Listed • Not Listed • Quartz  Iterative Most Listed • Not Listed	Asphalt	8052-42-4	Not Listed
Fermany - TA Luft - Emission Limits for Fibers  Asphalt Limestone Quartz  Asphalt  Fermany - TA Luft - Emission Limits for Inorganic Dusts Asphalt Limestone Asphalt A	• Limestone	1317-65-3	Not Listed
Asphalt Limestone Quartz  Asphalt  Rot Listed  1317-65-3 Not Listed  14808-60-7 Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  14808-60-7 Not Listed  1317-65-3 Not Listed  Not Listed  1317-65-3 Not Listed  Quartz  Not Listed	• Quartz	14808-60-7	Not Listed
• Limestone • Quartz  1317-65-3 Not Listed • Quartz  14808-60-7 Not Listed  Rermany - TA Luft - Emission Limits for Inorganic Dusts • Asphalt • Limestone • Quartz  1317-65-3 Not Listed  1317-65-3 Not Listed  14808-60-7 Not Listed	Germany - TA Luft - Emission Limits for Fibers		
• Quartz  14808-60-7 Not Listed  Fermany - TA Luft - Emission Limits for Inorganic Dusts  • Asphalt  • Limestone  • Quartz  14808-60-7 Not Listed  1317-65-3 Not Listed  14808-60-7 Not Listed	Asphalt	8052-42-4	Not Listed
sermany - TA Luft - Emission Limits for Inorganic Dusts  • Asphalt  • Limestone  • Quartz  8052-42-4  Not Listed  1317-65-3  Not Listed  Not Listed	Limestone	1317-65-3	Not Listed
<ul> <li>Asphalt</li> <li>Limestone</li> <li>Quartz</li> <li>8052-42-4</li> <li>Not Listed</li> <li>Not Listed</li> <li>Not Listed</li> <li>Not Listed</li> </ul>	• Quartz	14808-60-7	Not Listed
• Limestone 1317-65-3 Not Listed Quartz 14808-60-7 Not Listed	Germany - TA Luft - Emission Limits for Inorganic Dusts		
• Quartz 14808-60-7 Not Listed	Asphalt	8052-42-4	Not Listed
	• Limestone	1317-65-3	Not Listed
ermany - TA Luft - Emission Limits for Inorganic Gases	• Quartz	14808-60-7	Not Listed
	Germany - TA Luft - Emission Limits for Inorganic Gases		

• Quartz	14808-60-7	ID Number 849, not considered hazardous to water
• Limestone	1317-65-3	Not Listed
Asphalt	8052-42-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Quartz	14808-60-7	Not Listed
Limestone	1317-65-3	Not Listed
• Asphalt	8052-42-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Quartz	14808-60-7	ID Number 849, not considered hazardous to water
• Limestone	1317-65-3	ID Number 317, not considered hazardous to water
Asphalt	8052-42-4	ID Number 326, not considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 1		
• Quartz	14808-60-7	Not Listed
• Limestone	1317-65-3	Not Listed
Asphalt	8052-42-4	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
• Quartz	14808-60-7	Not Listed
• Limestone	1317-65-3	Not Listed
Asphalt	8052-42-4	Not Listed

### **United States**

Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed

U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EP	CRA RQs		
Asphalt	8052-42-4	Not Listed	
• Limestone	1317-65-3	Not Listed	
• Quartz	14808-60-7	Not Listed	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TP	Qs		
Asphalt	8052-42-4	Not Listed	
• Limestone	1317-65-3	Not Listed	
• Quartz	14808-60-7	Not Listed	
U.S CERCLA/SARA - Section 313 - Emission Reporting			
Asphalt	8052-42-4	Not Listed	
Limestone	1317-65-3	Not Listed	
• Quartz	14808-60-7	Not Listed	
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing			
Asphalt	8052-42-4	Not Listed	
• Limestone	1317-65-3	Not Listed	
• Quartz	14808-60-7	Not Listed	

### **United States - California**

Environment U.S California - Proposition 65 - Carcinogens List		
	8052-42-4	Not Listed
Asphalt     Lineatons		
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)
U.S California - Proposition 65 - Developmental Toxicity		
Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed

# **United States - Pennsylvania**

Labor		
U.S Pennsylvania - RTK (Right to Know) - Environme	ntal Hazard List	
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
J.S Pennsylvania - RTK (Right to Know) - Special Haz	zardous Substances	
Asphalt	8052-42-4	Not Listed
Limestone	1317-65-3	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

#### Relevant Phrases (code & full text)

H315 - Causes skin irritation
 R38 - Irritating to skin.

**Revision Date** 

**Preparation Date** 

Other Information

Disclaimer/Statement of Liability

• 19/January/2018

11/August/2010

· Changes to this revision: Updated mailing address.

• 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