

## 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** • **SBS Glass FR Series: SBS Glass FR and SBS Glass FR Torch**

## 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  
250 West 96th Street  
Indianapolis, IN 46260  
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]

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)  
R20

## 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** ● R20 - Harmful by inhalation.

**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 preparation 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 - H372

**2.2 Label elements**

OSHA HCS 2012

**DANGER**

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

**Precautionary statements**

- Prevention** ● Do not breathe dust, fume, gas, mist, vapours and/or spray. - P260  
Wash thoroughly after handling. - P264  
Do not eat, drink or smoke when using this product. - P270
- Response** ● Get medical advice/attention if you feel unwell. - P314
- Storage/Disposal** ● Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

**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 - 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).

**2.4 Other information**

- The calcium carbonate, colemanite, and fiberglass are bound in an asphalt matrix, none of which is expected to be released. The sand and granules are applied to the asphalt surface in such a manner that nominal release from the surface is anticipated.

See Section 12 for Ecological Information.

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

**3.2 Mixtures**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Asphalt	CAS:8052-42-4 EINECS:232-490-9	50% TO 60%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Inhalation-Rat LC50 • >94.4 mg/m <sup>3</sup>	EU DSD/DPD: Self Classified: Carc. 3 R40 EU CLP: Self Classified: Carc. 2, H351 OSHA HCS 2012: Carc. 2	NDA
Colemanite	CAS:1318-33-8	20% TO 30%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	Bound in the asphalt matrix and not expected to be released.
Limestone	CAS:1317-65-3 EC Number:215-279-6	5% TO 10%	NDA	EU DSD/DPD: Self Classified: Xn R48/20 EU CLP: Self Classified: STOT RE 1, H372 OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Quartz	CAS:14808-60-7 EC Number:238-878-4	< 10%	NDA	EU DSD/DPD: Self Classified: Carc 1A, H350 EU CLP: Self Classified: Carc 1; R45 OSHA HCS 2012: Carc. 1A	NDA
Fiberglass	NDA	2% TO 5%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	Bound in the asphalt matrix and not expected to be released.

**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, CO<sub>2</sub> 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** ● If burned, the materials could release toxic fumes and smoke. Incomplete thermal oxidation can produce hydrogen cyanide, carbon monoxide, carbon dioxide, ammonia, formaldehyde and other low molecular weight hydrocarbons and oxides or sulfur, nitrogen, calcium and magnesium.

### 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** ● Do not touch damaged packages or spilled material.

**Emergency Procedures** ● As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 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**

- Do not breathe 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**

**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**

- No data available.

**Incompatible Materials or Ignition Sources**

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

**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	Australia	Belgium	Canada Alberta	Canada British Columbia
Limestone (1317-65-3)	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)
	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL
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)
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)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
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)
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)
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)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China

Limestone (1317-65-3)	STELs	Not established	Not established	Not established	20 mg/m3 STEL	16 mg/m3 STEL (total dust); 8 mg/m3 STEL (respirable dust)
	TWAs	Not established	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)
Quartz (14808-60-7)	STELs	Not established	Not established	Not established	Not established	2 mg/m3 STEL (10%-50% free SiO <sub>2</sub> , total dust); 1.4 mg/m3 STEL (50%-80% free SiO <sub>2</sub> , total dust); 1 mg/m3 STEL (containing >80% free SiO <sub>2</sub> , total dust); 1.4 mg/m3 STEL (10%-50% free SiO <sub>2</sub> , respirable dust); 0.6 mg/m3 STEL (50%-80% free SiO <sub>2</sub> , respirable dust); 0.4 mg/m3 STEL (containing >80% free SiO <sub>2</sub> , respirable dust)
	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 SiO <sub>2</sub> , total dust); 0.3 mg/m3 TWA (containing 50-80% free SiO <sub>2</sub> , respirable dust); 1 mg/m3 TWA (containing 10-50% free SiO <sub>2</sub> , total dust); 0.7 mg/m3 TWA (containing 10-50% free SiO <sub>2</sub> , respirable dust); 0.5 mg/m3 TWA (containing >80% free SiO <sub>2</sub> , total dust); 0.2 mg/m3 TWA (containing >80% free SiO <sub>2</sub> , respirable dust)
Asphalt (8052-42-4)	STELs	Not established	Not established	Not established	10 mg/m3 STEL (fume)	12.5 mg/m3 STEL (fume, as Benzene soluble matter)
	TWAs	0.5 mg/m3 TWA (fume, inhalable, as Benzene-soluble aerosol)	5 mg/m3 TWAEV (fume)	0.5 mg/m3 TWA (fume and inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (fume, as Benzene soluble matter)

Exposure Limits/Guidelines (Con't.)				
	Result	Denmark	NIOSH	OSHA
Limestone (1317-65-3)	TWAs	Not established	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Quartz (14808-60-7)	TWAs	0.3 mg/m <sup>3</sup> TWA (total); 0.1 mg/m <sup>3</sup> TWA (respirable)	0.05 mg/m <sup>3</sup> TWA (respirable dust)	Not established
Asphalt (8052-42-4)	TWAs	1 mg/m <sup>3</sup> TWA (Cyclohexane fraction of total dust, fume)	Not established	Not established
	Ceilings	Not established	5 mg/m <sup>3</sup> Ceiling (fume, 15 min)	Not established

## Exposure Control Notations

### 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))

## 8.2 Exposure controls

### Engineering Measures/Controls

- 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 approved/certified respiratory 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. Availability of eye wash fountains are recommended.

### Environmental Exposure Controls

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

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

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

TWAEV = Time-Weighted Average Exposure Value

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

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black mat with sand and/ or ceramic covered surface with an asphalt odor.
Color	Black	Odor	Asphalt odor.

Odor Threshold	Data lacking		
<b>General Properties</b>			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	Data lacking	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
<b>Volatility</b>			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
<b>Environmental</b>			
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

- Keep away from heat, ignition sources and 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

Component Name	CAS	Data
Asphalt (50% TO 60%)	8052-42-4	<b>Acute Toxicity:</b> orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3; <b>Mutagen:</b> dna-mus-skn 600 mg/kg; <b>Tumorigen/Carcinogen:</b> skn-mus TDLo:130 gm/kg/81W-I
Quartz (< 10%)	14808-60-7	<b>Tumorigen/Carcinogen:</b> ihl-rat TCLo:50 mg/m3/6H/71W-I

<b>GHS Properties</b>	<b>Classification</b>
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<b>Acute toxicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Aspiration Hazard</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Carcinogenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Germ Cell Mutagenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Skin corrosion/Irritation</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Skin sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>STOT-RE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>STOT-SE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Toxicity for Reproduction</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Respiratory sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Serious eye damage/Irritation</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

**Medical Conditions  
Aggravated by Exposure  
Potential Health Effects  
Inhalation**

**Acute (Immediate)**

**Chronic (Delayed)**

- Pre-existing lung conditions which may be aggravated if fumes/dusts are inhaled.

- 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)**

**Chronic (Delayed)**

- Mechanical irritation of the skin/skin abrasion may occur characterized by itching or redness.
- No data available

**Eye**

**Acute (Immediate)**

**Chronic (Delayed)**

- Mechanical irritation of the eye may occur characterized by itching or redness.
- No data available.

**Ingestion**

**Acute (Immediate)**

**Chronic (Delayed)**

- Ingestion of this product unlikely.
- 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.

<b>Carcinogenic Effects</b>			
	<b>CAS</b>	<b>IARC</b>	<b>NTP</b>
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Not Listed

**Key to abbreviations**

LC = Lethal Concentration

LD = Lethal Dose

SEV = Severe

TC = Toxic Concentration

## 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

	<b>14.1 UN number</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Transport hazard class(es)</b>	<b>14.4 Packing group</b>	<b>14.5 Environmental hazards</b>

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 user** • None specified.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 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
Colemanite	1318-33-8	No	No	No
Limestone	1317-65-3	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Asphalt	8052-42-4	Yes	No	Yes	Yes	No
Colemanite	1318-33-8	No	No	No	No	No
Limestone	1317-65-3	No	Yes	Yes	Yes	No
Quartz	14808-60-7	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Asphalt	8052-42-4	Yes	Yes	Yes
Colemanite	1318-33-8	No	No	No
Limestone	1317-65-3	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes

## Australia

### Labor

#### Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
		Demographic, medical and occupational history; Records of personal exposure;

• Quartz	14808-60-7	Standardised respiratory questionnaire to be completed; Standardised respiratory function test, for example, FEV1, FVC and FEV1/FVC; Chest X-ray full size PA view
• Colemanite	1318-33-8	Not Listed
<b>Australia - High Volume Industrial Chemicals List</b>		
• Asphalt	8052-42-4	
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	
• Colemanite	1318-33-8	Not Listed
<b>Australia - List of Designated Hazardous Substances - Classification</b>		
• Asphalt	8052-42-4	Self classification required (petroleum fumes)
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Self classification required
• Colemanite	1318-33-8	Not Listed

## Environment

### Australia - National Pollutant Inventory (NPI) Substance List

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

### Australia - Ozone Protection Act - Scheduled Substances

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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

• Colemanite	1318-33-8	Not Listed
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**Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Canada****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.)
• Colemanite	1318-33-8	Not Listed

**Canada - WHMIS - Ingredient Disclosure List**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	1 %
• Colemanite	1318-33-8	Not Listed

**Environment****Canada - CEPA - Priority Substances List**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	Not Listed

**Denmark****Environment****Denmark - List of Undesirable Substances - Product Groups/Function**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

## Germany

### Labor

#### Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

#### Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

#### Germany - TRGS 505 - Specific Lead Regulations

• Asphalt	8052-42-4	Not Listed
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• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TRGS 511 - Specific Ammonium Nitrate Regulations**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TA Luft - Emission Limits for Carcinogenic Substances**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TA Luft - Emission Limits for Fibers**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TA Luft - Emission Limits for Inorganic Dusts**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TA Luft - Emission Limits for Inorganic Gases**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - TA Luft - Emission Limits for Organic Substances**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - Water Classification (VwVwS) - Annex 1**

• Asphalt	8052-42-4	ID Number 326, not considered hazardous to water
• Limestone	1317-65-3	ID Number 317, not considered hazardous to water
• Quartz	14808-60-7	ID Number 849, not considered hazardous to water
• Colemanite	1318-33-8	Not Listed

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**Germany - Water Classification (VwVwS) - Annex 3**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	ID Number 849, not considered hazardous to water
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

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



• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	Not Listed

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

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)
• Colemanite	1318-33-8	Not Listed

**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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	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
• Colemanite	1318-33-8	Not Listed

**United States - Pennsylvania**

**Labor**

**U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Asphalt	8052-42-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Quartz	14808-60-7	Not Listed
• Colemanite	1318-33-8	Not Listed

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information**

**Last Revision Date**

- 21/April/2014

**Preparation Date**

- 03/January/2012

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**Key to abbreviations**

NDA = No Data Available