

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 • FullForce™ Sealant

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

Relevant identified use(s) • Lap Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
200 4th Avenue South
Nashville, TN 37201
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 2015/830]

2.1 Classification of the substance or mixture

CLP • Skin Sensitization 1 - H317
Eye Irritation 2 - H319
Reproductive Toxicity 1 - H360

2.2 Label Elements

CLP

DANGER

Hazard statements • H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child

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.

P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response** • P302+P352 - IF ON SKIN: Wash with plenty of water.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P321 - Specific treatment, see supplemental first aid information.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal** • P405 - Store locked up.
 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.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Skin Sensitization 1
 Eye Irritation 2A
 Reproductive Toxicity 1B

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • May cause an allergic skin reaction
 Causes serious eye irritation
 May damage fertility or the unborn child.

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.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF ON SKIN: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 Specific treatment, see supplemental first aid information.
 If skin irritation or rash occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal** • Store locked up.
 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 2015

2.1 Classification of the substance or mixture**WHMIS 2015**

- Skin Sensitization 1
- Eye Irritation 2A
- Reproductive Toxicity 1B

2.2 Label elements**WHMIS 2015****DANGER**

- Hazard statements**
- May cause an allergic skin reaction
 - Causes serious eye irritation
 - May damage fertility or the unborn child.

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.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- IF ON SKIN: Wash with plenty of water.
 - Take off contaminated clothing and wash it before reuse.
 - Specific treatment, see supplemental first aid information.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical advice/attention.
 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- Store locked up.
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards**WHMIS 2015**

- 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

Limestone	CAS:1317-65-3 EC Number:215-279-6	30% TO 60%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Polymer	NDA	10% TO 30%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Carbon Black	CAS:1333-86-4 EC Number:215-609-9	1% TO 5%	Ingestion/Oral-Rat LD50 • >15400 mg/kg Skin-Rabbit LD50 • >3 g/kg	EU CLP: Carc. 2, H351; STOT RE 1, H372 OSHA HCS 2012: Carc. 2; STOT RE 1 (Lungs, Inhl); Comb. Dust WHMIS 2015: Carc. 2; STOT RE 1 (Lungs, Inhl); Comb. Dust	NDA
Adhesion Promoter	NDA	1% TO 5%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Wetting Agent	NDA	< 1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Dibutyltin Diacetyldiacetonate	CAS:22673-19-4 EINECS:245-152-0	< 1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Crystalline silica	CAS:14808-60-7 EC Number:238-878-4	< 1%	NDA	EU CLP: Carc. 1A, H350i; STOT RE 1, H372 (Lungs/Inhl) OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs/Inhl) WHMIS 2015: Carc. 1A; STOT RE 1 (Lungs/Inhl)	NDA

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if artificial oxygen is administered.

Skin

- IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing. If skin irritation occurs: Get medical advice/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

- Do NOT induce vomiting. Get medical attention immediately.

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** • The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable Extinguishing Media

- Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Containers may explode when heated.

Hazardous Combustion Products

- Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear positive pressure self-contained breathing apparatus (SCBA).
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- Stay upwind. Keep out of low areas. Keep unauthorized personnel away.

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

- Stop leak if you can do it without risk.
Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely.

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 breathing dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not reuse empty containers.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep containers upright. Keep only in the original container. Keep container/package tightly closed in a cool, well-ventilated place. Protect containers from damage.

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
Carbon Black (1333-86-4)	TWAs	3 mg/m3 TWA (inhalable particulate matter)	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable)	3 mg/m3 TWA (inhalable particulate matter)
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable particulate matter)	0.1 mg/m3 TWA (alveolar dust)	0.025 mg/m3 TWA (respirable particulate)	0.025 mg/m3 TWA (respirable)	0.025 mg/m3 TWA (respirable particulate matter)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)	Not established
	STELs	Not established	Not established	Not established	20 mg/m3 STEL (total dust)	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable particulate matter)	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable)
	STELs	Not established	7 mg/m3 STEL	Not established	7 mg/m3 STEL	Not established
Crystalline silica (14808-60-7)	TWAs	0.1 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	0.025 mg/m3 TWA (respirable particulate matter)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)
Limestone (1317-65-3)	TWAs	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	10 mg/m3 TWA	Not established	10 mg/m3 TWA	Not established
	STELs	Not established	20 mg/m3 STEL	Not established	20 mg/m3 STEL	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	Denmark	NIOSH
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWAEV	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)
	STELs	Not established	Not established	7 mg/m3 STEL	Not established	Not established
Crystalline silica (14808-60-7)	TWAs	0.1 mg/m3 TWAEV (respirable dust)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline (Trydimite removed))	300 particle/mL TWA (listed under Silica - Quartz, crystalline)	0.3 mg/m3 TWA (total); 0.1 mg/m3 TWA (respirable)	0.05 mg/m3 TWA (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	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

	STELs	Not established	Not established	20 mg/m3 STEL	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result		OSHA			
Carbon Black (1333-86-4)	TWAs		3.5 mg/m3 TWA			
Crystalline silica	TWAs		50 µg/m3 TWA (listed under Respirable crystalline silica)			
Limestone (1317-65-3)	TWAs		15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)			

Exposure Control Notations

Canada Ontario

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

Canada Quebec

•Crystalline silica (14808-60-7): **Carcinogens:** (C2 carcinogen - effect suspected in humans)

ACGIH

•Carbon Black (1333-86-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

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

Germany DFG

•Carbon Black (1333-86-4): **Carcinogens:** (Category 3B (could be carcinogenic for man; inhalable fraction))

•Crystalline silica (14808-60-7): **Carcinogens:** (Category 1 (causes cancer in man; alveola fraction))

Exposure Limits Supplemental

OSHA

•Crystalline silica (14808-60-7): **Mineral Dusts:** ((250)/(%SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO₂ + 2) mg/m3 TWA, respirable fraction)

ACGIH

•Carbon Black (1333-86-4): **TLV Basis - Critical Effects:** (bronchitis)

•Crystalline silica (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

- 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 protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

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

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

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	Black solid paste with almost no odor.
Color	Black	Odor	Almost no odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Slightly basic
Specific Gravity/Relative Density	= 1.43 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		
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 temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- None known.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- Does not decompose when used and stored as recommended.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Limestone (30% TO 60%)	1317-65-3	Multi-dose Toxicity: Inhalation-Rat TClO • 84 mg/m ³ 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/m ³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i>
Carbon Black (1% TO 5%)	1333-86-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >15400 mg/kg; <i>Behavioral:Somnolence (general depressed activity);</i> Skin -Rabbit LD50 • >3 g/kg; Mutagen: DNA adduct • Inhalation-Mouse • 6200 µg/m ³ 16 Hour(s) 12 Week(s)-Intermittent; DNA damage • Inhalation-Rat • 50 µg/L 13 Week(s)-Intermittent; DNA damage • Inhalation-Rat • 50 g/L 13 Week(s); Tumorigen / Carcinogen: Inhalation-Rat TClO • 11600 µg/m ³ 18 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors</i>
Crystalline silica (< 1%)	14808-60-7	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> Multi-dose Toxicity: Inhalation-Hamster TClO • 3 mg/m ³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Lungs, Thorax, or Respiration:Changes in lung weight;</i> Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm ³ ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm ³ ; Tumorigen / Carcinogen: Inhalation-Rat TClO • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A WHMIS 2015 • Eye Irritation 2A
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1 WHMIS 2015 • Skin Sensitizer 1
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 1B OSHA HCS 2012 • Toxic to Reproduction 1B

	WHMIS 2015 • Toxic to Reproduction 1B
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • May cause skin sensitization. Symptoms include redness, and skin rash.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Ingestion of this product unlikely.
- Chronic (Delayed)** • No data available.

Carcinogenic Effects

- Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

Carcinogenic Effects			
	CAS	IARC	NTP
Carbon Black	1333-86-4	Group 2B-Possible Carcinogen	Not Listed
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

LD = Lethal Dose

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 by the manufacturer.

12.6 Other adverse effects

- No studies have been found.

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	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 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

State Right To Know				
Component	CAS	MA	NJ	PA
Carbon Black	1333-86-4	Yes	Yes	Yes
Crystalline silica	14808-60-7	Yes	Yes	Yes
Dibutyltin Diacetyldiacetate	22673-19-4	No	No	No
Limestone	1317-65-3	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes
Crystalline silica	14808-60-7	Yes	No	Yes	No	Yes
Dibutyltin Diacetyldiacetate	22673-19-4	Yes	No	Yes	No	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Bulgaria

Environment

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Carbon Black	1333-86-4	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.)
• Limestone	1317-65-3	D2A 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.)
• Crystalline silica	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.)
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Canada - WHMIS 1988 - Ingredient Disclosure List

• Carbon Black	1333-86-4	1 %
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	1 %
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification (OBSOLETE)**

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed

• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - Immission Control - Qualifying Quantities for Safety Reporting		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TRGS 505 - Specific Lead Regulations		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Environment		
Germany - TA Luft - Types and Classes		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Carbon Black	1333-86-4	1742, not considered hazardous to water (if no classification with R45)

• Limestone	1317-65-3	required) 317, not considered hazardous to water
• Crystalline silica	14808-60-7	849, not considered hazardous to water
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	ID Number 849, not considered hazardous to water
• Dibutyltin Diacetyldiacetate	22673-19-4	ID Number 7696, hazard class 3 - severe hazard to waters

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Environment

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	carcinogen, 2/21/2003 (airborne, unbound particles of respirable size)
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed

• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

United States - Pennsylvania

Labor

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

• Carbon Black	1333-86-4	Not Listed
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• Carbon Black	1333-86-4	
• Limestone	1317-65-3	Not Listed
• Crystalline silica	14808-60-7	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	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)

- H350i - May cause cancer by inhalation.
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.

Revision Date

- 05/June/2018

Preparation Date

- 05/June/2018

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