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

1.1 Product identifier
Product Name • FlexWhite™ Edge Caulk

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s) • Sealant

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
genflexmsds@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

2.1 Classification of the substance or mixture
CLP • Flammable Solids 1 - H228
Skin Irritation 2 - H315
Eye Irritation 2 - H319
Specific Target Organ Toxicity Repeated Exposure 2 - H373

2.2 Label Elements
CLP

DANGER

Hazard statements • H228 - Flammable solid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P240 - Ground and/or bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P370+P378 - In case of fire: Use appropriate media for extinction.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P321 - Specific treatment, see supplemental first aid information.
- P362 - Take off contaminated clothing and wash before reuse.
- P332+P313 - If skin irritation 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.
- 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.

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
- Flammable Solids 1
- Skin Irritation 2
- Eye Irritation 2A
- Reproductive Toxicity 2
- Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Flammable solid
- Causes skin irritation
- Causes serious eye irritation
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- Ground and/or bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Do not breathe mist/vapours/spray.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response
- In case of fire: Use appropriate media for extinction.
- If on skin: Wash with plenty of water.
- Specific treatment, see supplemental first aid information.
- Take off contaminated clothing and wash before reuse.
- If skin irritation 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.
- 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


Canada
According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS • Flammable Solids - B4
    Other Toxic Effects - D2B

2.2 Label elements

WHMIS • Flammable Solids - B4
    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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>CAS:64742-89-8</td>
<td>5% TO</td>
<td>NDA</td>
<td>EU CLP: Annex VI, Table 3.1: Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 OSHA HCS 2012: Not Classified Carcinogen and mutagen classifications listed on EU Annex VI don’t apply as this component contains less than 0.1% benzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC Number:265-192-2</td>
<td>20%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU Index:649-267-00-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>CAS:64742-88-7</td>
<td>2.5% TO</td>
<td>NDA</td>
<td>EU CLP: Annex VI, Table 3.1: STOT RE 1 (CNS, Inhl), H372; Asp. Tox. 1, H304 OSHA HCS 2012: Flam. Liq. 3; Asp. Tox. 1; STOT RE 2; Repr. 2;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC Number:265-191-7</td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EU Index:649-405-00-X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
It is highly unlikely the powders and pigments compounded within this product would pose a hazardous risk from inhalation as they are no longer a respirable particulate. Exposure to these ingredients as used in sealants, putties, bedding compounds and other non-sprayable products is highly unlikely.

### 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 symptoms occur.

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. 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**
- 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**
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.

**Unsuitable Extinguishing Media**
- No data available

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

**Unusual Fire and Explosion Hazards**
- Flammable/combustible material.
- May be ignited by friction, heat, sparks or flames.
- Some may burn rapidly with flare burning effect.
- Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence.
- May re-ignite after fire is extinguished.

**Hazardous Combustion Products**
- Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters

- Move containers from fire area if you can do it without risk.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  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 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
- Use only with adequate ventilation. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

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
- SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
  LARGE SPILLS: Wet down with water and dike for later disposal.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Do not use in areas without adequate ventilation. Keep containers closed. Keep away from heat, sparks, and flame – No Smoking. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Do not use sparking tools. Wear appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Store in a well-ventilated place. Keep container tightly closed.

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

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Belgium</th>
<th>Canada Alberta</th>
<th>Canada British Columbia</th>
<th>Canada Manitoba</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>TWAs</td>
<td>0.025 mg/m³ TWA (respirable fraction)</td>
<td>0.1 mg/m³ TWA (alveolar dust)</td>
<td>0.025 mg/m³ TWA (respirable particulate)</td>
<td>0.025 mg/m³ TWA (respirable)</td>
</tr>
<tr>
<td>Calcium oxide (1305-78-8)</td>
<td>TWAs</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

#### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada New Brunswick</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
<th>Canada Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>TWAs</td>
<td>0.1 mg/m³ TWA (respirable fraction)</td>
<td>0.1 mg/m³ TWA (respirable mass); 0.3 mg/m³ TWA (total mass)</td>
<td>0.025 mg/m³ TWA (respirable fraction)</td>
<td>0.10 mg/m³ TWA (designated substances regulation, respirable, listed under Silica, crystalline)</td>
</tr>
<tr>
<td>Calcium oxide (1305-78-8)</td>
<td>TWAs</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA</td>
<td>5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

#### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Quebec</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>Denmark</th>
<th>Germany DFG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>TWAs</td>
<td>0.1 mg/m³ TWAEV (respirable dust)</td>
<td>0.05 mg/m³ TWA (respirable fraction, listed under Silica - crystalline)</td>
<td>300 particle/mL TWA (listed under Silica)</td>
<td>0.3 mg/m³ TWA (total); 0.1 mg/m³ TWA (respirable)</td>
</tr>
<tr>
<td>Calcium oxide (1305-78-8)</td>
<td>STELS</td>
<td>Not established</td>
<td>Not established</td>
<td>4 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>2 mg/m³ TWAEV</td>
<td>2 mg/m³ TWA</td>
<td>2 mg/m³ TWA</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>STELS</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

#### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Germany TRGS</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>TWAs</td>
<td>Not established</td>
<td>0.05 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³ TWA AGW (The risk of damage to the embryo or fetus)</td>
<td></td>
</tr>
</tbody>
</table>
Calcium oxide (1305-78-8) | TWAs | can be excluded when AGW and BGW values are observed. Substance causing local effects, inhalable fraction, exposure factor 2 | 2 mg/m³ TWA | 5 mg/m³ TWA
---|---|---|---|---
Titanium dioxide (13463-67-7) | TWAs | Not established | Not established | 15 mg/m³ TWA (total dust)

### Exposure Control Notations

**Germany DFG**
- Titanium dioxide (13463-67-7): **Carcinogens**: (Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles))
- Quartz (14808-60-7): **Carcinogens**: (Category 1 (causes cancer in man, alveola fraction))

### 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. Use explosion-proof electrical/ventilating/lighting/equipment.

#### Personal Protective Equipment

**Respiratory**
- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 certified respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**
- Wear safety goggles.

**Skin/Body**
- Wear protective gloves and clothing.

#### 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
- **MAK** = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- **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
- **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 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance/Description</td>
<td>White pasty solid with petroleum-like odor.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>131 °C(267.8 °F)</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Bulk Density</strong></td>
<td>1.42 g/cm³</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>&gt; 20.5 Centistoke (cSt, cS) or mm²/sec</td>
</tr>
</tbody>
</table>
### Oxidizing Properties
- Data lacking

### Volatility
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3.8 Air=1</td>
</tr>
<tr>
<td>VOC (Vol.)</td>
<td>&lt; 250 g/L</td>
</tr>
</tbody>
</table>

### Flammability
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>10 °C(50 °F)</td>
</tr>
<tr>
<td>UEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

### Environmental
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

### 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
- Avoid flames, sparks, or other sources of ignition. Incompatible materials.

#### 10.5 Incompatible materials
- Strong oxidizing agents.

#### 10.6 Hazardous decomposition products
- None known.

### Section 11 - Toxicological Information

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Irritation</th>
<th>Multi-dose Toxicity</th>
<th>Tumorigen / Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (&lt;= 2.5%)</td>
<td>Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation;</td>
<td>Inhalation-Rat TCLo • 10 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or Respiration: Fibrosis (interstitial); Lungs, Thorax, or Respiration: Other changes; Biochemical: Metabolism (intermediate): Effect on inflammation or mediation of inflammation; Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; Lungs, Thorax, or Respiration: Chronic pulmonary edema; Lungs, Thorax, or Respiration: Other changes;</td>
<td>Inhalation-Rat • 10 mg/m³ 18 Hour(s) 2 Year(s)-Intermittent; Tumorigenic: Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Tumors; Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic: Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Tumors;</td>
</tr>
<tr>
<td></td>
<td>Mutagen:</td>
<td>Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Micronucleus test • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; DNA damage • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent;</td>
<td>Multi-dose Toxicity: Inhalation-Mouse TCLo • 2200 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Liver: Changes in liver</td>
</tr>
</tbody>
</table>

| Titanium dioxide (<= 2.5%) | Multi-dose Toxicity: Inhalation-Mouse TCLo • 2200 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Liver: Changes in liver |
| Solvent naphtha (petroleum), medium aliph. (2.5% TO 10%) | 64742-88-7 | **Acute Toxicity:** Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea; Inhalation-Rat TCLo • 200 mg/kg; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Inhalation-Rat TCLo • 550 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Changes in kidney weight; Reproductive Effects:Paternal Effects: Spermatogenesis; Inhalation-Rat TCLo • 550 mg/m³ 91 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Other changes; Inhalation-Rat TCLo • 550 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Endocrine: Thyroid tumors |
| Quartz (<= 0.5%) | 14808-60-7 | **Acute Toxicity:** Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Cough; Lungs, Thorax, or Respiration:Dyspnea; Inhalation-Rat TCLo • 200 mg/kg; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Inhalation-Rat TCLo • 550 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Changes in kidney weight; Reproductive Effects:Paternal Effects: Spermatogenesis; Inhalation-Rat TCLo • 550 mg/m³ 91 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Other changes; Inhalation-Rat TCLo • 550 mg/m³ 6 Hour(s) 16 Day(s)-Intermittent; Endocrine: Thyroid tumors |

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Eye Irritation 2A</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2</td>
</tr>
</tbody>
</table>

**Potential Health Effects**

**Inhalation**

- **Acute (Immediate)** • May cause respiratory irritation.
Chronic (Delayed)  
- No data available.

Skin
Acute (Immediate)  
- Causes skin irritation.

Chronic (Delayed)  
- No data available.

Eye
Acute (Immediate)  
- Causes serious eye irritation.

Chronic (Delayed)  
- No data available.

Ingestion
Acute (Immediate)  
- May cause irritation.

Chronic (Delayed)  
- No data available.

Carcinogenic Effects  
- Although this material does contain several components that are either carcinogens or potential carcinogens the material as a whole is not classified as a carcinogen according to regulatory guidelines. While the following components are listed by IARC as carcinogenic, they are bound in the matrix of this product and not expected to be released under normal use.

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Group 1-Carcinogenic</td>
<td>Known Human Carcinogen</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Group 2B-Possible Carcinogen</td>
<td>Evidence of Carcinogenicity</td>
</tr>
</tbody>
</table>

Key to abbreviations
LD = Lethal Dose  
TC = Toxic Concentration  
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity
- Material data lacking.

12.2 Persistence and degradability
- Material data lacking.

12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
- 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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT UN1325</td>
<td>Flammable solids, organic, n.o.s. (Naphtha)</td>
<td>4.1</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG UN1325</td>
<td>FLAMMABLE SOLID, ORGANIC, N.O.S. (Naphtha)</td>
<td>4.1</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG UN1325</td>
<td>FLAMMABLE SOLID, ORGANIC, N.O.S. (Naphtha)</td>
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<tr>
<td>ADN UN1325</td>
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<td>ADR/RID UN1325</td>
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<td>II</td>
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<td>IATA/ICAO UN1325</td>
<td>Flammable solid, organic, n.o.s. (Naphtha)</td>
<td>4.1</td>
<td>II</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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

14.8 Other information

DOT

- This product can qualify for the limited quantity exception found under 49 CFR § 173.151 Exceptions for Class 4.

### Section 15 - Regulatory Information

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

**SARA Hazard Classifications**

- Acute, Chronic, Fire

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>64742-88-7</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
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#### Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
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<tbody>
<tr>
<td>Calcium oxide</td>
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<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
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<td>Substance Description</td>
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<td>WHMIS Classification</td>
<td>EU CLP Classification</td>
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<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Canada - WHMIS - Classifications of Substances**

- Calcium oxide: 1305-78-8, E
  - D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
- Titanium dioxide: 13463-67-7
- Light aliphatic solvent naphtha: 64742-89-8, B2
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, B3 (petroleum, C9-12)
- 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**

- Calcium oxide: 1305-78-8, 1 %
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, 1 %

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Xn; R46/20-65
### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
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</tr>
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<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
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<tr>
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<td>Not Listed</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
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<td>T R:45-46-65 S:53-45</td>
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<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>64742-88-7</td>
<td>Xn R:48/20-65 S:(2)-23-24-62</td>
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<tr>
<td>Quartz</td>
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</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
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</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### United States

#### Labor

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
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<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**U.S. - OSHA - Specifically Regulated Chemicals**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
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</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

#### Environment

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Titanium dioxide</td>
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<td>Not Listed</td>
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<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>64742-88-7</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>Not Listed</td>
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<tr>
<td>Titanium dioxide</td>
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<tr>
<td>Light aliphatic solvent naphtha</td>
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<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>64742-88-7</td>
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</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
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<td>Chemical</td>
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<td>Reportable Quantity</td>
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<td>Calcium oxide</td>
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<tr>
<td>Solvent naphtha (petroleum), medium aliph.</td>
<td>64742-88-7</td>
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</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
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</tbody>
</table>

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

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

- Calcium oxide: 1305-78-8, Not Listed
- Titanium dioxide: 13463-67-7, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
- Quartz: 14808-60-7, Not Listed

### United States - California

#### Environment

### U.S. - California - Proposition 65 - Carcinogens List

- Calcium oxide: 1305-78-8, Not Listed
carcinogen, initial date 9/2/11
- Titanium dioxide: 13463-67-7, Not Listed
airborne, unbound particles of respirable size
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
carcinogen, initial date 10/1/88
- Solvent naphtha (petroleum), medium aliph.: 64742-88-7, Not Listed
airborne particles of respirable size
- Quartz: 14808-60-7, Not Listed

### U.S. - California - Proposition 65 - Developmental Toxicity
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 Not Listed
• Quartz 14808-60-7 Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
• Calcium oxide 1305-78-8 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Solvent naphtha (petroleum), medium aliph. 64742-88-7 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)

- H304 - May be fatal if swallowed and enters airways
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage
- H340 - May cause genetic defects.
- H341 - Suspected of causing genetic defects.
- H350 - May cause cancer.
- H350i - May cause cancer by inhalation.
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H373 - May cause damage to organs - Lungs through prolonged or repeated exposure via Inhalation

### Revision Date
- 28/January/2016

### Preparation Date
- 04/December/2015

### 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