

## 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** • **Single-Ply QuickPrime™ Primer**

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

**Relevant identified use(s)** • Adhesive

## 1.3 Details of the supplier of the safety data sheet

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

firestonemsds@bfdp.com

**Telephone (General)** • 800-428-4442

## 1.4 Emergency telephone number

**Manufacturer** • (800) 424-9300 - CHEMTREC

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

## Section 2: Hazards Identification

## EU/EEC

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

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

## 2.1 Classification of the substance or mixture

**CLP**

- Flammable Liquids 2 - H225
- Aspiration 1 - H304
- Skin Irritation 2 - H315
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Reproductive Toxicity 2 - H361d
- Specific Target Organ Toxicity Repeated Exposure 2 - H373
- Hazardous to the aquatic environment Chronic 2 - H411

**DSD/DPD**

- Highly Flammable (F)
- Irritant (Xi)
- Harmful (Xn)
- Substances Toxic To Reproduction - Category 3
- Dangerous to the Environment (N)
- R11, R38, R48/20, R63, R65, R67, R51/53

## 2.2 Label Elements

**CLP**

**DANGER**



- Hazard statements** • H225 - Highly flammable liquid and vapour  
 H304 - May be fatal if swallowed and enters airways  
 H315 - Causes skin irritation  
 H336 - May cause drowsiness or dizziness  
 H361d - Suspected of damaging the unborn child.  
 H373 - May cause damage to organs through prolonged or repeated exposure.  
 H411 - Toxic to aquatic life with long lasting effects

### Precautionary statements

- Prevention** • P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground and/or bond container and receiving equipment.  
 P241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe mist/vapours/spray.  
 P264 - Wash thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves and eye/face protection , .  
 P281 - Use personal protective equipment as required.

- Response** • P370+P378 - In case of fire: Use appropriate media for extinction.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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.  
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 - Do NOT induce vomiting.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.  
 P314 - Get medical advice/attention if you feel unwell.  
 P391 - Collect spillage.

- Storage/Disposal** • P233 - Keep container tightly closed.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### DSD/DPD



- Risk phrases** • R11 - Highly flammable.  
 R38 - Irritating to skin.  
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R63 - Possible risk of harm to the unborn child.  
 R65 - Harmful: may cause lung damage if swallowed.  
 R67 - Vapours may cause drowsiness and dizziness.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases** • S9 - Keep container in a well ventilated place  
 S16 - Keep away from sources of ignition - No Smoking.

S37 - Wear suitable gloves.  
S57 - Use appropriate containment to avoid environmental contamination.

## 2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD**
- According to European Directive 1999/45/EC this material is considered dangerous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Flammable Liquids 2
  - Acute Toxicity Oral 4
  - Aspiration 1
  - Skin Irritation 2
  - Eye Irritation 2
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  - Reproductive Toxicity 2

### 2.2 Label elements

**OSHA HCS 2012**

#### DANGER



- Hazard statements**
- Highly flammable liquid and vapour
  - Harmful if swallowed
  - May be fatal if swallowed and enters airways
  - Causes skin irritation
  - Causes serious eye irritation
  - May cause drowsiness or dizziness
  - May cause respiratory irritation
  - Suspected of damaging 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.
  - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - Keep container tightly closed.
  - Ground and/or bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Avoid breathing mist/vapours/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- In case of fire: Use appropriate media for extinction.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
 Rinse mouth.  
 Do NOT induce vomiting.  
 IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

### OSHA HCS 2012

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

## Canada

According to: WHMIS

## 2.1 Classification of the substance or mixture

### WHMIS

- Flammable Liquids - B2  
 Other Toxic Effects - D2A  
 Other Toxic Effects - D2B

## 2.2 Label elements

### WHMIS



### WHMIS

- Flammable Liquids - B2  
 Other Toxic Effects - D2A  
 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 in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

| Composition                     |                                    |                  |           |  |          |
|---------------------------------|------------------------------------|------------------|-----------|--|----------|
| Chemical Name                   | Identifiers                        | %                | LD50/LC50 | Classifications According to Regulation/Directive  | Comments |
| Light aliphatic solvent naphtha | CAS:64742-89-8<br>EINECS:265-192-2 | 40%<br>TO<br>60% | NDA       | <b>EU DSD/DPD:</b> Annex VI, Table 3.2 - Xn R65, R67; Xi, R38; N; R51/53<br><b>EU CLP:</b> Annex VI, Table 3.1 - Flam. Liq. 2, H225; Skin Irrit. 2; H315; Asp. Tox. 1, H304; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411<br><b>OSHA HCS 2012:</b> Flam Liq. 2; Eye Irrit. 2; Skin Irrit. 2; Asp. Tox. 1; STOT SE 3: Narc. & Resp. Irrit. | NDA      |

|                         |                                  |                  |  |   |     |
|-------------------------|----------------------------------|------------------|--|---|-----|
| Toluene                 | CAS:108-88-3<br>EINECS:203-625-9 | 20%<br>TO<br>40% | Ingestion/Oral-Rat<br>LD50 • 636 mg/kg<br>Inhalation-Rat<br>LC50 • 49 g/m <sup>3</sup> 4<br>Hour(s)<br>Skin-Rabbit LD50 •<br>14100 µL/kg | <b>EU DSD/DPD:</b> Annex VI, Table 3.2 - F; R11; Repr. 3; R63; Xn; R48/20-65; Xi; R38; R67<br><b>EU CLP:</b> Annex VI, Table 3.1 - Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2*, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336<br><b>OSHA HCS 2012:</b> Flam. Liq. 2; Repr. 2; Acute Tox. 4 (Oral); STOT SE 3: Narc.; Asp. Tox. 1; Eye Irrit. 2; Skin Irrit. 2 | NDA |
| Silica, amorphous fumed | CAS:112945-52-5                  | < 5%             | Ingestion/Oral-Rat<br>LD50 • 3160 mg/kg  | <b>EU DSD/DPD:</b> Not Classified<br><b>EU CLP:</b> Not Classified<br><b>OSHA HCS 2012:</b> Not Classified  | NDA |

## 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.

#### Skin

- Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

#### Eye

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

#### Ingestion

- 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** • Carbon dioxide, sand, extinguishing powder.

**Unsuitable Extinguishing Media** • Water

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

#### Unusual Fire and Explosion Hazards

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Vapor explosion hazard indoors, outdoors or in sewers. Many liquids are lighter than water. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Runoff to sewer may create fire or explosion hazard. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### Hazardous Combustion Products

- Carbon oxides, nitrogen oxides, silicon oxides.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.

LARGE FIRES: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Stop leak if safe to do so.

If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- 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. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing.

#### Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. 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. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

### 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

- Stop leak if you can do it without risk.  
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
Use clean non-sparking tools to collect absorbed material.  
A vapor suppressing foam may be used to reduce vapors.  
All equipment used when handling the product must be grounded.  
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.  
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

### 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

- Keep away from heat, sparks and open flame. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing. Do not ingest. Take precautionary measures against static charges. Bond and ground all transfer containers and equipment. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. 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

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Protect from sunlight.

### 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   |
| Toluene<br>(108-88-3)               | STELs    | Not established                          | 150 ppm STEL; 574 mg/m <sup>3</sup> STEL  | 100 ppm STEL; 384 mg/m <sup>3</sup> STEL | Not established                               | Not established   |
|                                     | TWAs     | 20 ppm TWA                               | 50 ppm TWA; 191 mg/m <sup>3</sup> TWA     | 22 ppm TWA; 77 mg/m <sup>3</sup> TWA     | 50 ppm TWA; 188 mg/m <sup>3</sup> TWA         | 20 ppm TWA  |
| Exposure Limits/Guidelines (Con't.) |          |  |   |  |   |   |
|                                     | Result   | Canada Manitoba                          | Canada New Brunswick                      | Canada Northwest Territories             | Canada Nova Scotia                            | Canada Nunavut  |
| Toluene<br>(108-88-3)               | TWAs     | 20 ppm TWA                               | 50 ppm TWA; 188 mg/m <sup>3</sup> TWA     | 100 ppm TWA; 375 mg/m <sup>3</sup> TWA   | 20 ppm TWA                                    | 100 ppm TWA; 375 mg/m <sup>3</sup> TWA  |
|                                     | STELs    | Not established                          | Not established                           | 150 ppm STEL; 560 mg/m <sup>3</sup> STEL | Not established                               | 150 ppm STEL; 560 mg/m <sup>3</sup> STEL  |
| Exposure Limits/Guidelines (Con't.) |          |  |   |  |   |   |
|                                     | Result   | Canada Ontario                           | Canada Quebec                             | Canada Saskatchewan                      | Canada Yukon                                  | China   |
| Toluene<br>(108-88-3)               | STELs    | Not established                          | Not established                           | Not established                          | 150 ppm STEL; 560 mg/m <sup>3</sup> STEL      | 100 mg/m <sup>3</sup> STEL  |
|                                     | TWAs     | 20 ppm TWA                               | 50 ppm TWAEV; 188 mg/m <sup>3</sup> TWAEV | 50 ppm TWA                               | 100 ppm TWA; 375 mg/m <sup>3</sup> TWA        | 50 mg/m <sup>3</sup> TWA  |
| Exposure Limits/Guidelines (Con't.) |          |  |   |  |   |   |
|                                     | Result   | Cyprus                                   | Denmark                                   | Europe                                   | Germany DFG                                   | Germany TRGS  |
| Toluene<br>(108-88-3)               | STELs    | 100 ppm STEL; 384 mg/m <sup>3</sup> STEL | Not established                           | 100 ppm STEL; 384 mg/m <sup>3</sup> STEL | Not established                               | Not established   |
|                                     | TWAs     | 50 ppm TWA; 192 mg/m <sup>3</sup> TWA    | 25 ppm TWA; 94 mg/m <sup>3</sup> TWA      | 50 ppm TWA; 192 mg/m <sup>3</sup> TWA    | Not established                               | 50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4) |
|                                     | Ceilings | Not established                          | Not established                           | Not established                          | 200 ppm Peak; 760 mg/m <sup>3</sup> Peak      | Not established   |
|                                     | MAKs     | Not established                          | Not established                           | Not established                          | 50 ppm TWA MAK; 190 mg/m <sup>3</sup> TWA MAK | Not established   |
| Exposure Limits/Guidelines (Con't.) |          |  |   |  |   |   |
|                                     | Result   | NIOSH                                    |   |  | OSHA  |   |
| Toluene<br>(108-88-3)               | Ceilings | Not established                          |   |  | 300 ppm Ceiling                               |   |
|                                     | TWAs     | 100 ppm TWA; 375 mg/m <sup>3</sup> TWA   |   |  | 200 ppm TWA                                   |   |

STELs

150 ppm STEL; 560 mg/m3 STEL

Not established

**Exposure Control Notations****Cyprus**

- Toluene (108-88-3): **Skin:** (Skin-potential for cutaneous absorption)

**Germany TRGS**

- Toluene (108-88-3): **Skin:** (skin notation)

**Germany DFG**

- Toluene (108-88-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

**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**

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**

- Wear safety goggles.

**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

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

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TWAEV = Time-Weighted Average Exposure Value

NIOSH = National Institute of Occupational Safety and Health

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

OSHA = Occupational Safety and Health Administration

**Section 9 - Physical and Chemical Properties****9.1 Information on Basic Physical and Chemical Properties**

| <b>Material Description</b>       |                         |                              |   |
|-----------------------------------|-------------------------|------------------------------|---|
| Physical Form                     | Liquid                  | Appearance/Description       | Translucent to clear liquid with characteristic solvent odor. |
| Color                             | Translucent to clear.   | Odor                         | Characteristic solvent.                                       |
| Odor Threshold                    | Data lacking            |                              |   |
| <b>General Properties</b>         |                         |                              |   |
| Boiling Point                     | 185 °F(85 °C)           | Melting Point/Freezing Point | Data lacking  |
| Decomposition Temperature         | Data lacking            | pH                           | Unknown   |
| Specific Gravity/Relative Density | 0.75 to 0.81 Water=1    | Water Solubility             | Negligible < 0.1 %  |
| Viscosity                         | Data lacking            | Explosive Properties         | Data lacking  |
| Oxidizing Properties:             | Data lacking            |                              |   |
| <b>Volatility</b>                 |                         |                              |   |
| Vapor Pressure                    | 38 mmHg (torr)          | Vapor Density                | 3.6 Air=1   |
| Evaporation Rate                  | 3.5 n-Butyl Acetate = 1 | Volatiles (Vol.)             | 85 %  |



**Flammability**

|                          |                |                           |              |
|--------------------------|----------------|---------------------------|--------------|
| Flash Point              | 18 °C(64.4 °F) | UEL                       | Data lacking |
| LEL                      | Data lacking   | Autoignition              | Data lacking |
| Heat of Combustion (ΔHc) | 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**

- Avoid flames, sparks, or other sources of ignition.

**10.5 Incompatible materials**

- Strong oxidizing agents.

**10.6 Hazardous decomposition products**

- None known.

**Section 11 - Toxicological Information****11.1 Information on toxicological effects**

|                                |             | Components  |
|--------------------------------|-------------|---|
| Toluene (20% TO 40%)           | 108-88-3    | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m <sup>3</sup> 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg;<br><b>Irritation:</b> Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg • Moderate irritation;<br><b>Mutagen:</b> Sister chromatid exchange • Inhalation-Human • 252 µg/L 19 Year(s);<br><b>Reproductive:</b> Inhalation-Rat TClO • 2000 ppm (multigeneration); <i>Reproductive Effects:Effects on Newborn:Other neonatal measures or effects.; Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</i> |
| Silica, amorphous fumed (< 5%) | 112945-52-5 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3160 mg/kg;<br><b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 154 mg/m <sup>3</sup> 6 Hour(s) 4 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Structural or functional change in trachea or bronchi; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Dehydrogenases; Biochemical:Metabolism (intermediary):Other proteins</i>  |

| GHS Properties                   | Classification  |
|----------------------------------|---|
| <b>Acute toxicity</b>            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATE mix (oral) = 691.209245 mg/kg |
| <b>Skin corrosion/Irritation</b> | EU/CLP • Skin Irritation 2<br>OSHA HCS 2012 • Skin Irritation 2   |

|                                      |  |
|--------------------------------------|--|
| <b>Serious eye damage/Irritation</b> | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Eye Irritation 2   |
| <b>Skin sensitization</b>            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met  |
| <b>Respiratory sensitization</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met  |
| <b>Aspiration Hazard</b>             | EU/CLP • Aspiration 1<br>OSHA HCS 2012 • Aspiration 1  |
| <b>Carcinogenicity</b>               | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met  |
| <b>Germ Cell Mutagenicity</b>        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met  |
| <b>Toxicity for Reproduction</b>     | EU/CLP • Toxic to Reproduction 2<br>OSHA HCS 2012 • Toxic to Reproduction 2  |
| <b>STOT-SE</b>                       | EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects<br>OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;<br>Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation |
| <b>STOT-RE</b>                       | EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2<br>OSHA HCS 2012 • Classification criteria not met   |

**Target Organs**

- Central Nervous System (CNS)

**Route(s) of entry/exposure**

- Inhalation, Skin, Eye, Ingestion

**Potential Health Effects****Inhalation****Acute (Immediate)**

- May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)**

- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**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)**

- Harmful if swallowed. Material may be aspirated into the lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

**Chronic (Delayed)**

- No data available.

**Other****Chronic (Delayed)**

- Chronic exposure to hexane may produce peripheral neuropathy (motor sensory) and CNS abnormalities.

**Reproductive Effects**

- May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

**Key to abbreviations**

LC = Lethal Concentration

SEV = Severe

LD = Lethal Dose

TC = Toxic Concentration

MOD = Moderate

## Section 12 - Ecological Information

### 12.1 Toxicity

- This material may be toxic to aquatic organisms and cause long-term adverse effects in the aquatic environment.

### 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

|           | 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       | UN1133         | Adhesives, containing a flammable liquid | 3                               | II                 | NDA                        |
| TDG       | UN1133         | ADHESIVES containing flammable liquid    | 3                               | II                 | Potential Marine Pollutant |
| IMO/IMDG  | UN1133         | ADHESIVES, containing a flammable liquid | 3                               | II                 | NDA                        |
| ADN       | UN1133         | ADHESIVES containing flammable liquid    | 3                               | II                 | NDA                        |
| ADR/RID   | UN1133         | ADHESIVES, containing a flammable liquid | 3                               | II                 | NDA                        |
| IATA/ICAO | UN1133         | Adhesives, containing a flammable liquid | 3                               | II                 | NDA                        |

### 14.6 Special precautions for user

- None known.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not relevant.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute, Chronic, Fire

| State Right To Know             |             |     |     |     |
|---------------------------------|-------------|-----|-----|-----|
| Component                       | CAS         | MA  | NJ  | PA  |
| Light aliphatic solvent naphtha | 64742-89-8  | No  | No  | No  |
| Silica, amorphous fumed         | 112945-52-5 | No  | No  | No  |
| Toluene                         | 108-88-3    | Yes | Yes | Yes |

| Inventory                       |             |            |             |       |           |           |
|---------------------------------|-------------|------------|-------------|-------|-----------|-----------|
| Component                       | CAS         | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| Light aliphatic solvent naphtha | 64742-89-8  | Yes        | No          | Yes   | Yes       | No        |
| Silica, amorphous fumed         | 112945-52-5 | Yes        | No          | Yes   | No        | No        |
| Toluene                         | 108-88-3    | Yes        | No          | Yes   | Yes       | No        |

| Inventory (Con't.)              |             |            |            |      |
|---------------------------------|-------------|------------|------------|------|
| Component                       | CAS         | Japan ENCS | Korea KECL | TSCA |
| Light aliphatic solvent naphtha | 64742-89-8  | No         | Yes        | Yes  |
| Silica, amorphous fumed         | 112945-52-5 | Yes        | Yes        | No   |
| Toluene                         | 108-88-3    | Yes        | Yes        | Yes  |

## Australia

### Labor

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

#### Australia - High Volume Industrial Chemicals List

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  |            |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

#### Australia - List of Designated Hazardous Substances - Classification

|                                   |             |  |
|-----------------------------------|-------------|--|
| • Toluene                         | 108-88-3    | F, Xn, Xi Repr.Cat.3 R11, R63, R48/20, R65, R38, R67 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Xn Carc.Cat.2, Muta.Cat.2 R45, R46, R65              |
| • Silica, amorphous fumed         | 112945-52-5 | Self classification required (respirable dust)       |

## Environment

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

|                                   |             |                                  |
|-----------------------------------|-------------|----------------------------------|
| • Toluene                         | 108-88-3    | 10 tonne/yr Threshold category 1 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed                       |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                       |

**Australia - Ozone Protection Act - Scheduled Substances**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**Australia - Priority Existing Chemical Program**

|                                   |             |                    |
|-----------------------------------|-------------|--------------------|
| • Toluene                         | 108-88-3    | Candidate chemical |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed         |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed         |

**Belgium****Labor****Belgium - Substances and Preparations - Carcinogens and Mutagens**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |                  |
|-----------------------------------|-------------|------------------|
| • Toluene                         | 108-88-3    | 0.25 mg/m3 MAHCL |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed       |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed       |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**Canada****Labor****Canada - WHMIS - Classifications of Substances**

|                                   |             |              |
|-----------------------------------|-------------|--------------|
| • Toluene                         | 108-88-3    | B2, D2A, D2B |
| • Light aliphatic solvent naphtha | 64742-89-8  | B2           |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed   |

**Canada - WHMIS - Ingredient Disclosure List**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | 1 %        |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

Priority Substance List 1

|                                   |             |                                  |
|-----------------------------------|-------------|----------------------------------|
| • Toluene                         | 108-88-3    | (substance not considered toxic) |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed                       |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                       |

## Canada New Brunswick

### Environment

#### Canada - New Brunswick - Ozone Depleting Substances - Schedule A

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

#### Canada - New Brunswick - Ozone Depleting Substances - Schedule B

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

## China

### Other

#### China - Annex I & II - Controlled Chemicals Lists

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

## Denmark

### Environment

#### Denmark - List of Undesirable Substances - Product Groups/Function

|                                   |             |  |
|-----------------------------------|-------------|--|
| • Toluene                         | 108-88-3    | Solvents in a wide range of products including paints, coatings and cooling lubricants (listed under Organic solvents) |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed   |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed   |

## Europe

### Other

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

|                                   |             |  |
|-----------------------------------|-------------|--|
| • Toluene                         | 108-88-3    | F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65          |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                                       |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62 |
| • Light aliphatic solvent naphtha | 64742-89-8  | T R:45-46-65 S:53-45                          |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                                    |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | P          |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |                   |
|-----------------------------------|-------------|-------------------|
| • Toluene                         | 108-88-3    | S:(2)-36/37-46-62 |
| • Light aliphatic solvent naphtha | 64742-89-8  | S:53-45           |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed        |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**Germany - TRGS 505 - Specific Lead Regulations**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | ID Number 194, hazard class 2 - hazard to waters    |
| • Light aliphatic solvent naphtha | 64742-89-8  | ID Number 27, hazard class 1 - low hazard to waters |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed  |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |                                   |
|-----------------------------------|-------------|-----------------------------------|
| • Toluene                         | 108-88-3    | 1000 lb final RQ; 454 kg final RQ |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed                        |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                        |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |



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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |                                |
|-----------------------------------|-------------|--------------------------------|
| • Toluene                         | 108-88-3    | 1.0 % de minimis concentration |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed                     |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                     |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed  |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed  |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261**

|                                   |             |                   |
|-----------------------------------|-------------|-------------------|
| • Toluene                         | 108-88-3    | waste number U220 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed        |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed        |

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | 0.080 mg/L (wastewater); 10 mg/kg (nonwastewater) |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed  |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed  |

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics**

|           |          |                   |
|-----------|----------|-------------------|
| • Toluene | 108-88-3 | waste number U220 |
|-----------|----------|-------------------|

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

## United States - California

### Environment

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | developmental toxicity, initial date 1/1/91 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed                                  |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed                                  |

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

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | 7000 µg/day MADL (level represents absorbed dose) |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed  |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed  |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |   |
|-----------------------------------|-------------|---|
| • Toluene                         | 108-88-3    | female reproductive toxicity, initial date 8/7/09 |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed  |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed  |

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

## United States - Pennsylvania

### Labor

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    |            |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | Not Listed |

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

|                                   |             |            |
|-----------------------------------|-------------|------------|
| • Toluene                         | 108-88-3    | Not Listed |
| • Light aliphatic solvent naphtha | 64742-89-8  | Not Listed |
| • Silica, amorphous fumed         | 112945-52-5 | 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 birth defects or other reproductive harm.

## Section 16 - Other Information

**Revision Date**

- 28/February/2018

**Preparation Date**

- 28/January/2013

**Other Information**

- Changes to this revision: Updated mailing address.

**Disclaimer/Statement of Liability**

- The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company 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