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

1.1 Product identifier
Product Name: EPDM Bonding Adhesive

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
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 Liquids 2 - H225
  Aspiration 1 - H304
  Skin Irritation 2 - H315
  Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Carcinogenicity 1B - H350
- Reproductive Toxicity 2 - H361d
- Specific Target Organ Toxicity Repeated Exposure 2 - H373

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
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H350 - May cause cancer.
**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 and/or spray.
- P264 - Wash thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required.

**Response**
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.
- P330+P340 - May cause damage to organs through prolonged or repeated exposure.
- P362 - Take off contaminated clothing and wash before reuse.
- P331 - Do NOT induce vomiting.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P370+P378 - In case of fire: Use appropriate media for extinction.

**Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P235 - Keep cool.
- 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 Liquids 2
- Aspiration 1
- Skin Irritation 2
- Eye Irritation 2
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- Carcinogenicity 1B
- Reproductive Toxicity 2
- Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

**OSHA HCS 2012**

**DANGER**
Hazard statements
- Highly flammable liquid and vapour
- May be fatal if swallowed and enters airways
- Causes skin irritation
- Causes serious eye irritation
- May cause drowsiness or dizziness
- May cause cancer.
- 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.
- 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.
- Do not breathe mist, vapours and/or spray.
- Wash thoroughly after handling.
- 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: 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.

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

Supplemental information
- 25-50 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards
OSHA HCS 2012

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
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>CAS:108-88-3 EC Number:203-625-9 EU Index:601-021-00-3</td>
<td>25% TO 50%</td>
<td>Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg</td>
<td>EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Skin Irrit. 2, H315; Repr. 2, H361d; STOT SE 3: Narc., H336; STOT RE 2, H373; Asp. Tox. 1, H304 OSHA HCS 2012: Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 1 (CNS, Inhl); Asp. Tox. 1</td>
</tr>
<tr>
<td>Solvent-refined light petroleum naphtha</td>
<td>CAS:64741-84-0 EC Number:265-086-6 EU Index:649-278-00-0</td>
<td>25% TO 50%</td>
<td>NDA</td>
<td>EU CLP: Annex VI, Table 3.1: Asp. Tox. 1, H304; Carc. 1B, H350 OSHA HCS 2012: Asp. Tox. 1; Carc. 1B</td>
</tr>
<tr>
<td>Acetone</td>
<td>CAS:67-64-1 EC Number:200-662-2 EU Index:606-001-00-8</td>
<td>2.5% TO 10%</td>
<td>Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m³ 8 Hour(s)</td>
<td>EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Repr. 2 (Inhl); STOT SE 3: Narc.</td>
</tr>
<tr>
<td>Xylene</td>
<td>CAS:1330-20-7 EC Number:215-535-7 EU Index:601-022-00-9</td>
<td>&lt;= 2.5%</td>
<td>Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • &gt;1700 mg/kg</td>
<td>EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.</td>
</tr>
</tbody>
</table>

See Section 16 for full text of H-statements.

### Section 4 - First Aid Measures
4.1 Description of first aid measures

**Inhalation**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

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

**Ingestion**
- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

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**
- LARGE FIRES: Water spray, fog or alcohol-resistant foam.
- SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

**Unsuitable Extinguishing Media**
- Do not use a direct stream of 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. Dried solids can burn and release toxic fumes and vapors.

**Hazardous Combustion Products**
- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.

### Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions**
- Ventilate enclosed areas. Wear appropriate protective clothing. Do not walk through spilled material.

**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 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). Keep out of low areas. Stay upwind. Keep unauthorized personnel away.

### 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.
  - A vapor suppressing foam may be used to reduce vapors.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use clean non-sparking tools to collect absorbed material.
- All equipment used when handling the product must be grounded.

### 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 flame. All equipment used when handling the product must be grounded. Bond and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

**Storage**
- Keep container tightly closed. Store in a cool, dry place.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Any incompatibilities**

#### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Result</th>
<th>ACGIH</th>
<th>Australia</th>
<th>Belgium</th>
<th>Canada Alberta</th>
<th>Canada British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>STELs</td>
<td>500 ppm STEL</td>
<td>1000 ppm STEL; 2375 mg/m³ STEL</td>
<td>1000 ppm STEL; 2420 mg/m³ STEL</td>
<td>750 ppm STEL; 1800 mg/m³ STEL</td>
<td>500 ppm STEL</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>250 ppm TWA</td>
<td>500 ppm TWA; 1185 mg/m³ TWA</td>
<td>500 ppm TWA; 1210 mg/m³ TWA</td>
<td>500 ppm TWA; 1200 mg/m³ TWA</td>
<td>250 ppm TWA</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>STELs</td>
<td>150 ppm STEL</td>
<td>150 ppm STEL; 655 mg/m³ STEL</td>
<td>100 ppm STEL; 442 mg/m³ STEL</td>
<td>150 ppm STEL; 651 mg/m³ STEL</td>
<td>150 ppm STEL</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>100 ppm TWA</td>
<td>80 ppm TWA; 350 mg/m³ TWA</td>
<td>50 ppm TWA; 221 mg/m³ TWA</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>STELs</td>
<td>Not established</td>
<td>150 ppm STEL; 574 mg/m³ STEL</td>
<td>100 ppm STEL; 384 mg/m³ STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>20 ppm TWA</td>
<td>50 ppm TWA; 191 mg/m³ TWA</td>
<td>20 ppm TWA; 77 mg/m³ TWA</td>
<td>50 ppm TWA; 188 mg/m³ TWA</td>
<td>20 ppm TWA</td>
</tr>
</tbody>
</table>
### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Manitoba</th>
<th>Canada New Brunswick</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>STELs 500 ppm STEL; 1782 mg/m³ STEL</td>
<td>750 ppm STEL</td>
<td>750 ppm STEL</td>
<td>500 ppm STEL</td>
<td>1250 ppm STEL; 2970 mg/m³ STEL</td>
</tr>
<tr>
<td></td>
<td>TWAs 250 ppm TWA</td>
<td>500 ppm TWA; 1188 mg/m³ TWA</td>
<td>500 ppm TWA</td>
<td>250 ppm TWA</td>
<td>1000 ppm TWA; 2370 mg/m³ TWA</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>STELs 150 ppm STEL; 651 mg/m³ STEL</td>
<td>150 ppm STEL</td>
<td>150 ppm STEL</td>
<td>150 ppm STEL; 652 mg/m³ STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWAs 100 ppm TWA</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td>100 ppm TWA</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>STELs 60 ppm STEL</td>
<td>60 ppm STEL</td>
<td>60 ppm STEL</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>STELs 750 ppm STEL</td>
<td>1000 ppm STEV; 2380 mg/m³ STEV</td>
<td>Not established</td>
<td>1250 ppm STEL; 3000 mg/m³ STEL</td>
<td>450 mg/m³ STEL</td>
</tr>
<tr>
<td></td>
<td>TWAs 500 ppm TWA</td>
<td>500 ppm TWA; 1190 mg/m³ TWA</td>
<td>Not established</td>
<td>1000 ppm TWA; 2400 mg/m³ TWA</td>
<td>300 mg/m³ TWA</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>STELs 150 ppm STEL; 651 mg/m³ STEL</td>
<td>150 ppm STEL</td>
<td>150 ppm STEL; 652 mg/m³ STEL</td>
<td>100 mg/m³ STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWAs 100 ppm TWA</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>50 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>STELs 60 ppm STEL</td>
<td>60 ppm STEL</td>
<td>60 ppm STEL</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWAs 20 ppm TWA</td>
<td>50 ppm TWA; 188 mg/m³ TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
<td>50 mg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Cyprus</th>
<th>Denmark</th>
<th>Europe</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>TWAs 500 ppm TWA; 1210 mg/m³ TWA</td>
<td>250 ppm TWA; 600 mg/m³ TWA</td>
<td>Not established</td>
<td>500 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 1200 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceilings Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1000 ppm Peak; 2400 mg/m³ Peak</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>MAKs Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>500 ppm TWA MAK; 1200 mg/m³ TWA MAK</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
<td>STELs</td>
<td>Ceilings</td>
<td>MAKs</td>
<td>TWAs AGW AGW (all isomers, exposure factor 2); 440 mg/m3 TWA AGW (all isomers, exposure factor 2)</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------</td>
<td>------------------</td>
<td>----------</td>
<td>-------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Xylene</strong></td>
<td>50 ppm TWA; 221 mg/m3 TWA</td>
<td>100 ppm STEL; 442 mg/m3 STEL</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>(1330-20-7)</strong></td>
<td>25 ppm TWA; 109 mg/m3 TWA</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>MAKs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>100 ppm STEL; 384 mg/m3 STEL</td>
<td>Not established</td>
<td>100 ppm STEL; 384 mg/m3 STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>(108-88-3)</strong></td>
<td>TWAs 50 ppm TWA; 192 mg/m3 TWA</td>
<td>25 ppm TWA; 94 mg/m3 TWA</td>
<td>50 ppm TWA; 192 mg/m3 TWA</td>
<td>Not established</td>
<td>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/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>MAKs</strong></td>
<td>Not established</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></th>
<th>Result</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acetone</strong></td>
<td>TWAs</td>
<td>250 ppm TWA; 590 mg/m3 TWA</td>
<td>1000 ppm TWA; 2400 mg/m3 TWA</td>
</tr>
<tr>
<td><strong>(67-64-1)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Xylene</strong></td>
<td>TWAs</td>
<td>Not established</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
</tr>
<tr>
<td><strong>(1330-20-7)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>Ceilings</td>
<td>Not established</td>
<td>300 ppm Ceiling</td>
</tr>
<tr>
<td><strong>(108-88-3)</strong></td>
<td>TWAs</td>
<td>100 ppm TWA; 375 mg/m3 TWA</td>
<td>200 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
<td>150 ppm STEL; 560 mg/m3 STEL</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Control Notations

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

**Canada Quebec**
- Toluene (108-88-3): **Skin:** (Skin designation)

**Cyprus**
- Toluene (108-88-3): **Skin:** (Skin-potential for cutaneous absorption)
- Acetone (67-64-1): **Skin:** (Skin-potential for cutaneous absorption)
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 splash goggles.

Skin/Body

- Wear clothing and footwear that cannot be penetrated by chemicals or oil.

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

BEI = Biological Exposure Indices

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

STEV = Short Term Exposure Value

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>Physical Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Description</td>
<td>Yellow liquid with characteristic odor.</td>
</tr>
</tbody>
</table>
## General Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>56 °C (132.8 °F)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>= 0.844 Water=1</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Data lacking</td>
</tr>
<tr>
<td>pH</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

## Volatility

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>175 mmHg (torr) @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

## Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>-18 °C (-0.4 °F)</td>
</tr>
<tr>
<td>LEL</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>Data</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.

### 10.5 Incompatible materials

- No data available

### 10.6 Hazardous decomposition products

- Oxides of carbons and nitrogen; trace of HCL under burning conditions.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity:</strong></td>
<td>Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m² 4 Hour(s); Inhalation-Human TCLo • 1500 mg/m² 8 Hour(s); Sense Organs and Special Senses: Eye: Lacrimation; Sense Organs and Special Senses: Eye: Conjunctive irritation; Behavioral: Ataxia; Inhalation-Human TCLo • 200 ppm; Brain and Coverings: Recordings from specific areas of CNS; Behavioral: Antipsychotic; Blood: Changes in bone marrow not included above; Inhalation-Man TCLo • 50 ppm; Kidney, Ureter, and Bladder: Other changes in urine composition; Skin-Rabbit LD50 • 14100 µL/kg; Multi-dose Toxicity: Inhalation-Mouse TCLo • 250 ppm 4 Day(s)-Continuous; Behavioral: Convulsions or effect on</td>
</tr>
</tbody>
</table>
### GHS Properties

<table>
<thead>
<tr>
<th></th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Eye Irritation 2</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Eye Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Aspiration 1</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Aspiration 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Carcinogenicity 1B</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Carcinogenicity 1B</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Toxic to Reproduction 2</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Toxic to Reproduction 2</td>
</tr>
</tbody>
</table>
Potential Health Effects

Inhalation

**Acute (Immediate)**
- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)**
- CNS depression has been reported to occur in chronic abusers exposed to high levels of toluene. Symptoms include drowsiness, ataxia, tremors, cerebral atrophy, nystagmus (involuntary eye movements), and impaired speech, hearing, and vision. Neurobehavioral effects have been observed in occupationally exposed workers.

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)**
- 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.

Carcinogenic Effects
- Repeated and prolonged exposure may cause cancer.

Reproductive Effects
- Repeated or prolonged exposure to toluene may cause reproductive effects.

Key to abbreviations
- LC = Lethal Concentration
- 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></th>
<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</td>
<td>UN1133</td>
<td>Adhesives</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>UN1133</td>
<td>ADHESIVES</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1133</td>
<td>ADHESIVES</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>ADN</td>
<td>UN1133</td>
<td>ADHESIVES</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>UN1133</td>
<td>Adhesives</td>
<td>3</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
- Data lacking.

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>Acetone</td>
<td>67-64-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Solvent-refined light petroleum naphtha</td>
<td>64741-84-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Solvent-refined light petroleum naphtha</td>
<td>64741-84-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
### Inventory (Con't.)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Japan ENCS</th>
<th>Korea KECL</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Solvent-refined light petroleum naphtha</td>
<td>64741-84-0</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Australia

#### Labor

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

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Status: Not Listed
- Acetone
  - CAS: 67-64-1
  - Status: Not Listed
- Toluene
  - CAS: 108-88-3
  - Status: Not Listed
- Xylene
  - CAS: 1330-20-7
  - Status: Not Listed

**Australia - High Volume Industrial Chemicals List**

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Status: Not Listed
- Acetone
  - CAS: 67-64-1
  - Status: Not Listed
- Toluene
  - CAS: 108-88-3
  - Status: Not Listed
- Xylene
  - CAS: 1330-20-7
  - Status: Not Listed

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

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Classification: Xn Carc. Cat. 2, Muta. Cat. 2
  - R45, R46, R65
- Acetone
  - CAS: 67-64-1
  - Classification: F, Xi R11, R36, R66, R67
- Toluene
  - CAS: 108-88-3
  - Classification: F, Xn, Xi Repr. Cat. 3 R11, R63, R48/20, R65, R38, R67
- Xylene
  - CAS: 1330-20-7
  - Classification: Xn, Xi R10, R20/21, R38

#### Environment

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

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Threshold: 10 tonne/yr
    - Category: Threshold category 1
    - Not Listed
- Acetone
  - CAS: 67-64-1
  - Threshold: 10 tonne/yr
    - Category: Threshold category 1
    - Not Listed
- Toluene
  - CAS: 108-88-3
  - Threshold: 10 tonne/yr
    - Category: Threshold category 1 (including individual or mixed isomers)
    - Not Listed
- Xylene
  - CAS: 1330-20-7
  - Threshold: 10 tonne/yr
    - Category: Threshold category 1 (including individual or mixed isomers)
    - Not Listed

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

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Status: Not Listed
- Acetone
  - CAS: 67-64-1
  - Status: Not Listed
- Toluene
  - CAS: 108-88-3
  - Status: Not Listed
- Xylene
  - CAS: 1330-20-7
  - Status: Not Listed

**Australia - Priority Existing Chemical Program**

- Solvent-refined light petroleum naphtha
  - CAS: 64741-84-0
  - Status: Candidate chemical
- Acetone
  - CAS: 67-64-1
  - Status: Candidate chemical
- Toluene
  - CAS: 108-88-3
  - Status: Candidate chemical
- Xylene
  - CAS: 1330-20-7
  - Status: Candidate chemical
### Belgium

#### Labor

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

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed

### Bulgaria

#### Environment

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

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 0.35 mg/m³ MAHCL
- Toluene 108-88-3 0.25 mg/m³ MAHCL
- Xylene 1330-20-7 0.1 mg/m³ MAHCL

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

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 0.35 mg/m³ MAHCL
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed

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

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed

### Canada

#### Labor

**Canada - WHMIS - Classifications of Substances**

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 B2, D2B
- Toluene 108-88-3 B2, D2A, D2B
- Xylene 1330-20-7 B2, D2A, D2B

**Canada - WHMIS - Ingredient Disclosure List**

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 1 %
- Toluene 108-88-3 1 %
- Xylene 1330-20-7 Not Listed

#### Environment

**Canada - CEPA - Priority Substances List**

- Solvent-refined light petroleum naphtha 64741-84-0 Not Listed
- Acetone 67-64-1 Not Listed
- Toluene 108-88-3 Priority Substance List 1 (substance not considered toxic)
- Xylene 1330-20-7 Priority Substance List 1 (substance not considered toxic)
China

Other

China - Annex I & II - Controlled Chemicals Lists

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - Not Listed
- Acetone
  - 67-64-1
  - Not Listed
- Toluene
  - 108-88-3
  - Not Listed
- Xylene
  - 1330-20-7
  - Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - Not Listed
- Acetone
  - 67-64-1
  - Not Listed
  - Solvents (in a wide range of products including paints, coatings and cooling lubricants, listed under Organic solvents)
- Toluene
  - 108-88-3
- Xylene
  - 1330-20-7
  - Not Listed

Europe

Other

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

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
  - F; R11 Xi; R36 R66 R67
- Acetone
  - 67-64-1
  - F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
- Toluene
  - 108-88-3
  - S:(2)-36/37-46-62
- Xylene
  - 1330-20-7
  - R10 Xn; R20/21 Xi; R38

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

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - Not Listed
- Acetone
  - 67-64-1
  - Not Listed
- Toluene
  - 108-88-3
  - Not Listed
- Xylene
  - 1330-20-7
  - 12.5%<=C: Xn; R:20/21

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

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - T R:45-46-65 S:53-45
  - F Xr R:11-36-66-67 S:(2)-9-16-26
- Acetone
  - 67-64-1
  - S:(2)-36/37-46-62
- Toluene
  - 108-88-3
  - Xn R:10-20/21-38 S:(2)-25
- Xylene
  - 1330-20-7

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

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - P
- Acetone
  - 67-64-1
  - Not Listed
- Toluene
  - 108-88-3
  - Not Listed
  - C
- Xylene
  - 1330-20-7

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

- Solvent-refined light petroleum naphtha
  - 64741-84-0
  - S:53-45
- Acetone
  - 67-64-1
  - S:(2)-9-16-26
- Toluene
  - 108-88-3
  - S:(2)-36/37-46-62
- Xylene
  - 1330-20-7
  - S:(2)-25
<table>
<thead>
<tr>
<th>Germany - Immission Control - Qualifying Quantities for Major Accident Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - Immission Control - Qualifying Quantities for Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TRGS 505 - Specific Lead Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TRGS 511 - Specific Ammonium Nitrate Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany - TA Luft - Types and Classes</td>
</tr>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TA Luft - Emission Limits for Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TA Luft - Emission Limits for Fibers</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TA Luft - Emission Limits for Inorganic Dusts</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>• Acetone</td>
</tr>
<tr>
<td>• Toluene</td>
</tr>
<tr>
<td>• Xylene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germany - TA Luft - Emission Limits for Inorganic Gases</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Solvent-refined light petroleum naphtha</td>
</tr>
<tr>
<td>Acetone</td>
</tr>
<tr>
<td>--------------</td>
</tr>
<tr>
<td>Toluene</td>
</tr>
<tr>
<td>Xylene</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>ID Number 6, hazard class 1 - low hazard to waters</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>ID Number 194, hazard class 2 - hazard to waters</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>ID Number 206, hazard class 2 - hazard to waters</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>ID Number 8308, hazard class 3 - severe hazard to waters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**United States**

**Labor**

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Environment**

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>(isomers and mixtures)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Solvent-refined light petroleum naphtha</th>
<th>64741-84-0</th>
<th>Not Listed</th>
</tr>
</thead>
</table>

Preparation Date: 08/April/2016
Revision Date: 08/April/2016
Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, OSHA HCS 2012
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>64741-84-0</td>
<td>Not Listed</td>
<td>64741-84-0</td>
</tr>
</tbody>
</table>

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
- Xylene

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**
- Solvent-refined light petroleum naphtha
- Acetone
- Toluene
### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

### United States - Pennsylvania

#### Labor

**U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
- Solvent-refined light petroleum naphtha: 64741-84-0 Not Listed
- Acetone: 67-64-1 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 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 birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H226 - Flammable liquid and vapour
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled

Revision Date
- 08/April/2016

Preparation Date
- 08/April/2016

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