Safety Data Sheet

1.1 Product identifier
Product Name: Splice Adhesive SA-1065

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Roof Application - Adhesive
Use(s) advised against: Anything other than roof application.

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

1.4 Emergency telephone number
Manufacturer: (800) 424-9300 - CHEMTREC
Manufacturer: (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC
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
- Skin Irritation 2 - H315
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Reproductive Toxicity 2 - H361fd
- Specific Target Organ Toxicity Repeated Exposure 2 - H373
- Hazardous to the aquatic environment Chronic 3 - H412

DSD/DPD
- Highly Flammable (F)
- Irritant (Xi)
- Harmful (Xn)
- Substances Toxic To Reproduction - Category 3
- R11, R38, R48/20, R62, R63, R67, R52, R53

2.2 Label Elements
CLP
DANGER
Hazard statements

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 - May cause damage to organs Central Nervous System and Nervous System through prolonged or repeated exposure
H412 - Harmful 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.
- 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.
- P270 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P271 - Use protective gloves/protective clothing/eye protection/face protection.
- P280 - Wear personal protective equipment as required.

Response
- 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 - IF ON SKIN (or hair): Rinse skin with water/shower.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.

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

Supplemental information

25-35 percent of this product consists of an ingredient of unknown toxicity.
2.3 Other Hazards

CLP  
According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD  
According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)
According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Flammable Liquids 2 - H225
Acute Toxicity Oral 4 - H302
Skin Irritation 2 - H315
Eye Irritation 2A - H319
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Reproductive Toxicity 2 - H361
Specific Target Organ Toxicity Repeated Exposure 2 - H373

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

Highly flammable liquid and vapour - H225
Harmful if swallowed - H302
Causes skin irritation - H315
Causes serious eye irritation - H319
May cause drowsiness or dizziness - H336
Suspected of damaging fertility or the unborn child. - H361
May cause damage to organs Central Nervous System and Nervous System through prolonged or repeated exposure - H373

Precautionary statements

Prevention

Obtain special instructions before use. - P201
Do not handle until all safety precautions have been read and understood. - P202
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
Keep container tightly closed. - P233
Ground and/or bond container and receiving equipment. - P240
Use explosion-proof electrical/ventilating/lighting/equipment. - P241
Use only non-sparking tools. - P242
Take precautionary measures against static discharge. - P243
Do not breathe mist/vapours/spray. - P260
Wash thoroughly after handling. - P264
Do not eat, drink or smoke when using this product. - P270
Use only outdoors or in a well-ventilated area. - P271
Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response

In case of fire: Use appropriate media for extinction. - P370+P378
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
Call a POISON CENTER or doctor/physician if you feel unwell. - P312
IF ON SKIN (or hair): - P303
Rinse skin with water/shower. - P353
If skin irritation occurs: Get medical advice/attention. - P332+P313
Specific treatment, see supplemental first aid information. - P321
Take off contaminated clothing and wash before reuse. - P362
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
If eye irritation persists: Get medical advice/attention. - P337+P313
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. - P301+P312
Rinse mouth. - P330
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. - P309+P311

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

Supplemental information
- 25-35 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
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).

2.4 Other information
- 20-25 percent of this product consists of an ingredient of unknown toxicity.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

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

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splice Adhesive SA-1065</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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. Get medical attention immediately if symptoms occur.

##### Skin

Rinse skin with rubbing alcohol first, followed immediately by washing affected area with soap and water. Remove and isolate contaminated clothing and shoes. 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

If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.

#### 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

See Section 11 for Toxicological Information.
5.1 Extinguishing media

Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

- No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Heat builds up pressure in closed containers. Cool with water stream.
- Toxic fumes and vapors may be produced.

Hazardous Combustion Products

- Carbon dioxide, carbon monoxide, acrid smoke, irritating fumes.

5.3 Advice for firefighters

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

LARGE FIRES: Dike fire control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- CAUTION: Victim may be a source of contamination. Do not touch or walk through spilled material.

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

- Do not use in areas without adequate ventilation. Handle and open container with care.
- Use good safety and industrial hygiene practices.
7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

<table>
<thead>
<tr>
<th></th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>STELs</td>
</tr>
<tr>
<td></td>
<td>TWAs</td>
</tr>
<tr>
<td>Hexane (110-54-3)</td>
<td>TWAs</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>TWAs</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Result</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene (1330-20-7)</td>
<td>TWAs</td>
<td>Not established</td>
<td>100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m3 TWA AGW (all isomers, exposure factor 2)</td>
<td>Not established</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>200 ppm Peak (all isomers); 880 mg/m3 Peak (all isomers)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>MAKs</td>
<td>100 ppm TWA MAK; 440 mg/m3 TWA MAK</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Hexane (110-54-3)</td>
<td>TWAs</td>
<td>Not established</td>
<td>50 ppm TWA AGW (exposure factor 8); 180 mg/m3 TWA AGW (exposure factor 8)</td>
<td>50 ppm TWA; 180 mg/m3 TWA</td>
<td>500 ppm TWA; 1800 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>400 ppm Peak; 1440 mg/m3 Peak</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>MAKs</td>
<td>50 ppm TWA MAK; 180 mg/m3 TWA MAK</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>200 ppm Peak; 760 mg/m3 Peak</td>
<td>Not established</td>
<td>Not established</td>
<td>300 ppm Ceiling</td>
</tr>
</tbody>
</table>

(The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, especially when the risk of damage to the embryo or fetus is considered.)
Toluene (108-88-3)

<table>
<thead>
<tr>
<th>TWAs</th>
<th>STELs</th>
<th>MAKs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not established</td>
<td>Not established</td>
<td>50 ppm TWA MAK; 190 mg/m3 TWA MAK</td>
</tr>
<tr>
<td>100 ppm TWA; 375 mg/m3 TWA</td>
<td>150 ppm STEL; 560 mg/m3 STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>200 ppm TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Exposure Control Notations**

**China**
- Toluene (108-88-3): **Skin**: (Skin notation)
- Hexane (110-54-3): **Skin**: (Skin notation)

**Canada Ontario**
- Hexane (110-54-3): **Skin**: (Absorption through skin, eyes, or mucous membranes)

**Canada Quebec**
- Toluene (108-88-3): **Skin**: (Skin designation)
- Hexane (110-54-3): **Skin**: (Skin designation)

**ACGIH**
- Toluene (108-88-3): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)
- Xylene (1330-20-7): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)
- Hexane (110-54-3): **Skin**: (Skin - potential significant contribution to overall exposure by the cutaneous route)

**Germany TRGS**
- Toluene (108-88-3): **Skin**: (skin notation)
- Xylene (1330-20-7): **Skin**: (skin notation (all isomers))

**Germany DFG**
- Toluene (108-88-3): **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to) | **Skin**: (skin notation)
- Xylene (1330-20-7): **Pregnancy**: (classification not yet possible (all isomers)) | **Skin**: (skin notation (all isomers))
- Hexane (110-54-3): **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to)

**Exposure Limits Supplemental**

**ACGIH**
- Toluene (108-88-3): **BEIs**: (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | **TLV Basis - Critical Effects**: (female reproductive; pregnancy loss; visual impairment)
- Xylene (1330-20-7): **BEIs**: (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects**: (CNS impairment; eye and upper respiratory tract irritation)
- Hexane (110-54-3): **BEIs**: (0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis) | **TLV Basis - Critical Effects**: (CNS impairment; eye irritation; peripheral neuropathy)

**8.2 Exposure controls**

**Engineering Measures/Controls**
- This material is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Equipment**

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

**Eye/Face**
- Wear protective eyewear (goggles, face shield, or safety glasses).

**Skin/Body**
- Wear appropriate gloves.
Environmental Exposure Controls

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

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Color</th>
<th>Odor Threshold</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
<td>Black viscous liquid with aromatic odor.</td>
<td>Black</td>
<td>Data lacking</td>
<td>Aromatic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
</tr>
<tr>
<td>Melting Point</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
</tr>
<tr>
<td>Heat of Decomposition</td>
</tr>
<tr>
<td>pH</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
</tr>
<tr>
<td>Water Solubility</td>
</tr>
<tr>
<td>Viscosity</td>
</tr>
<tr>
<td>Explosive Properties</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
</tr>
<tr>
<td>Vapor Density</td>
</tr>
<tr>
<td>Evaporation Rate</td>
</tr>
<tr>
<td>Volatiles (Wt.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
</tr>
<tr>
<td>UEL</td>
</tr>
<tr>
<td>LEL</td>
</tr>
<tr>
<td>Autoignition</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</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, and other sources of ignition. Avoid contact with combustible materials. Avoid contact with incompatible materials.

10.5 Incompatible materials

Acids, bases, combustible materials, oxidizing materials.

10.6 Hazardous decomposition products

Thermal decomposition could produce CO, CO2, and Oxides of Nitrogen.
# Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg; Irritation: Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 800 mg/m³ 6 Hour(s)(14-20D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Newborn:Behavioral</th>
<th>Classification criteria not met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (20% TO 50%)</td>
<td>108-88-3</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; Liver:Other changes: Kidney, Ureter, and Bladder:Other changes: Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Skin-Rabbit LD50 • &gt;1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s)(1-21D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities; Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</td>
</tr>
<tr>
<td>Xylene (2.5% TO 10%)</td>
<td>1330-20-7</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 25 g/kg; Inhalation-Rat LC50 • 48000 ppm 4 Hour(s); Irritation: Eye-Rabbit • 10 mg • Mild irritation; Reproductive: Inhalation-Rat TCLo • 5000 ppm (6-19D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Urogenital system</td>
</tr>
<tr>
<td>Hexane (5% TO 20%)</td>
<td>110-54-3</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 68800 ppm 4 Hour(s); Skin sensitization: Human 50 g/kg; Skin sensitization: Animal 20 mg 24 Hour(s)</td>
</tr>
</tbody>
</table>

### GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • H361d - Suspected of damaging the unborn child; H361f - Suspected of damaging fertility; Toxic to Reproduction 2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
</tbody>
</table>

### Route(s) of entry/exposure

<table>
<thead>
<tr>
<th>Route(s)</th>
<th>Skin, Eye</th>
</tr>
</thead>
</table>

Preparation Date: 11/January/2012
Revision Date: 29/December/2014
Potential Health Effects

Inhalation

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

Chronic (Delayed)  Repeated and prolonged exposure may cause Central Nervous System (CNS) effects.

Skin

Acute (Immediate)  Causes skin irritation.

Chronic (Delayed)  No data available.

Eye

Acute (Immediate)  Causes serious eye irritation.

Chronic (Delayed)  No data available.

Ingestion

Acute (Immediate)  May be harmful.

Chronic (Delayed)  No data available.

Reproductive Effects  Repeated and prolonged exposure may cause reproductive effects.

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  No information available for the product.

12.3 Bioaccumulative potential  No information available for the product.

12.4 Mobility in Soil  No information available for the product.

12.5 Results of PBT and vPvB assessment  PBT and vPvB assessment has not been carried out.

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
14.6 Special precautions for user
None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant.

14.8 Other information
DOT Toluene has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101. Xylene has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101. Hexane has a reportable quantity of 5000 lbs (2270 kg) as listed in Appendix A to 49 CFR 172.101.

### 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>State Right To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hexamethylene diisocyanate homopolymer</strong></td>
<td>CAS</td>
</tr>
<tr>
<td>28182-81-2</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Hexane</strong></td>
<td>110-54-3</td>
</tr>
<tr>
<td><strong>Isobutylene-isoprene polymer</strong></td>
<td>9010-85-9</td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>108-88-3</td>
</tr>
<tr>
<td><strong>Xylene</strong></td>
<td>1330-20-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hexamethylene diisocyanate homopolymer</strong></td>
<td>CAS</td>
</tr>
<tr>
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<td>Yes</td>
</tr>
<tr>
<td><strong>Hexane</strong></td>
<td>110-54-3</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>108-88-3</td>
</tr>
<tr>
<td><strong>Xylene</strong></td>
<td>1330-20-7</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>
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<tr>
<td>Hexamethylene diisocyanate homopolymer</td>
<td>28182-81-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Yes</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**
- Isobutylene-isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

#### Australia - High Volume Industrial Chemicals List

- Isobutylene-isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

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

- Isobutylene-isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 F, Xn, Xi Repr.Cat.3 R11, R63, R48/20, R65, R38, R67
- Xylene 1330-20-7 Xn, Xi R10, R20/21, R38
- Hexane 110-54-3 F, Xn, Xi, N Repr.Cat.3 R11, R62, R48/20, R65, R38, R67, R51, R53
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

### Environment

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

- Isobutylene-isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 10 tonne/yr Threshold category 1
- Xylene 1330-20-7 10 tonne/yr Threshold category 1 (including individual or mixed isomers)
- Hexane 110-54-3 10 tonne/yr Threshold category 1
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

#### Australia - Ozone Protection Act - Scheduled Substances

- Isobutylene-isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
### Hexane
110-54-3  Not Listed

### Hexamethylene diisocyanate homopolymer
28182-81-2  Not Listed

### Bulgaria - Priority Existing Chemical Program
- Isobutylene-Isoprene polymer 9010-85-9  Not Listed
- Toluene 108-88-3  Candidate chemical
- Xylene 1330-20-7  Candidate chemical
- Hexane 110-54-3  Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2  Not Listed

### Bulgaria
#### Environment
Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour
- Isobutylene-Isoprene polymer 9010-85-9  Not Listed
- Toluene 108-88-3  0.25 mg/m^3 MAHCL
- Xylene 1330-20-7  0.1 mg/m^3 MAHCL
- Hexane 110-54-3  Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2  Not Listed

### Canada
#### Labor
Canada - WHMIS - Classifications of Substances
- Isobutylene-Isoprene polymer 9010-85-9  Not Listed
- Toluene 108-88-3  B2, D2A, D2B
- Xylene 1330-20-7  B2, D2A, D2B
- Hexane 110-54-3  B2, D2A, D2B
- Hexamethylene diisocyanate homopolymer 28182-81-2  Not Listed

Canada - WHMIS - Ingredient Disclosure List
- Isobutylene-Isoprene polymer 9010-85-9  Not Listed
- Toluene 108-88-3  1 %
- Xylene 1330-20-7  1 %
- Hexane 110-54-3  Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2  Not Listed

### Environment
Canada - CEPA - Priority Substances List
- Isobutylene-Isoprene polymer 9010-85-9  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)
- Hexane 110-54-3  Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2  Not Listed

### Europe
#### Other
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification
- Isobutylene-Isoprene polymer 9010-85-9  Not Listed
- Toluene 108-88-3  F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
• Xylene
1330-20-7 R10 Xn; R20/21 Xi; R38
F; R11 Xi; R38 N; R51-53
Repr.Cat.3; R62 Xn; R65-48/20
R67

• Hexane
110-54-3 Not Listed

• Hexamethylene diisocyanate homopolymer
28182-81-2 Not Listed

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

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Limit</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>12.5%&lt;=C: Xn; R20/21</td>
<td></td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>5%&lt;=C: Xn; R48/20</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
</table>
S:(2)-36/37-46-62 |
| Toluene | Xn R:10-20/21-38 S:(2)-25 |
| Xylene | F Xn |
Hazard Class = 3 PG = II |
| Hexane | Not Listed |

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

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</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>C</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>S:(2)-36/37-46-62</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>S:(2)-25</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>S:(2)-9-16-29-33-36/37-61-62</td>
</tr>
</tbody>
</table>

Mexico

Other

Mexico - Hazard Classifications

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Hazard Class = 3 PG = II</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>UN1294</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>Hazard Class = 3 PG = II</td>
</tr>
</tbody>
</table>

Mexico - Regulated Substances

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>UN1294</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>UN1307; UN1307</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
### United States

#### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

#### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
  - Toluene 108-88-3 Not Listed
  - Xylene 1330-20-7 100 lb final RQ; 454 kg final RQ
  - Hexane 110-54-3 5000 lb final RQ; 2270 kg final RQ
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
  - Toluene 108-88-3 Not Listed
  - Xylene 1330-20-7 Not Listed
  - Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
  - Toluene 108-88-3 Not Listed
  - Xylene 1330-20-7 Not Listed
  - Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
  - Toluene 108-88-3 1.0 % de minimis concentration
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Hexamethylene diisocyanate homopolymer</td>
<td>28182-81-2</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3 waste number U220
- Xylene: 1330-20-7 Not Listed
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3
- Xylene: 1330-20-7
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

### United States - California

#### Environment

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3 Not Listed
- Xylene: 1330-20-7 Not Listed
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3 developmental toxicity, initial date 1/1/91
- Xylene: 1330-20-7 Not Listed
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
- Toluene: 108-88-3 female reproductive toxicity, initial date 8/7/09
- Xylene: 1330-20-7 Not Listed
- Hexane: 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer: 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer: 9010-85-9 Not Listed
United States - Pennsylvania

**Labor**

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

- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Not Listed
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

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

- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Toxic (skin); Flammable (skin)
- Xylene 1330-20-7 Toxic (skin); Flammable (skin)
- Hexane 110-54-3 Toxic; Flammable
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

United States - Rhode Island

**Labor**

**U.S. - Rhode Island - Hazardous Substance List**

- Isobutylene-Isoprene polymer 9010-85-9 Not Listed
- Toluene 108-88-3 Toxic (skin); Flammable (skin)
- Xylene 1330-20-7 Toxic (skin); Flammable (skin)
- Hexane 110-54-3 Toxic; Flammable
- Hexamethylene diisocyanate homopolymer 28182-81-2 Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

- **Last Revision Date** 07/May/2013
- **Preparation Date** 11/January/2012
- **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