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

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

firestonemds@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: 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

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, hot surfaces, sparks, open flames and other ignition sources. 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/protective clothing/eye protection/face protection.

Response
- P370+P378 - In case of fire: Use appropriate media to extinguish.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P302+P352 - IF ON SKIN: Wash with plenty of water.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P321 - Specific treatment, see supplemental first aid information.
- P362+P364 - Take off contaminated clothing and wash it 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.

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.
- R62 - Possible risk of impaired fertility.
- R63 - Possible risk of harm to the unborn child.
- R67 - Vapours may cause drowsiness and dizziness.
- R52 - Harmful to aquatic organisms.
- R53 - 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.

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

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
- Acute Toxicity Oral 4
- Skin Irritation 2
- Eye Irritation 2A
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- 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
- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- May cause drowsiness or dizziness
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs Central Nervous System and Nervous System 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/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 person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- IF ON SKIN (or hair):
- Rinse skin with water/shower.
- If skin irritation occurs: Get medical advice/attention.
- Specific treatment, see supplemental first aid information.
- Take off contaminated clothing and wash before reuse.
- 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.
IF exposed or concerned: Get medical advice/attention.

**Storage/Disposal**
- Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- 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**

**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**

**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>EU DSD/DPD: Annex I - F; R11 Repr. Cat. 3; R63</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

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>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
<td>ACGIH</td>
<td>Canada Ontario</td>
<td>Canada Quebec</td>
<td>China</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>STELs 150 ppm STEL</td>
<td>150 ppm STEL</td>
<td>150 ppm STEV; 651 mg/m³ STEV</td>
<td>100 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>TWAs 100 ppm TWA</td>
<td>100 ppm TWA</td>
<td>100 ppm TWAEV; 434 mg/m³ TWAEV</td>
<td>50 mg/m³ TWA</td>
<td>Not established</td>
</tr>
<tr>
<td>Hexane (110-54-3)</td>
<td>TWAs 50 ppm TWA</td>
<td>50 ppm TWA</td>
<td>50 ppm TWAEV; 176 mg/m³ TWAEV</td>
<td>100 mg/m³ TWA</td>
<td>20 ppm TWA; 72 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>STELs Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>180 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>STELs Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>100 mg/m³ STEL</td>
<td>100 ppm STEL; 384 mg/m³ STEL</td>
</tr>
<tr>
<td></td>
<td>TWAs 20 ppm TWA</td>
<td>20 ppm TWA</td>
<td>50 ppm TWAEV; 188 mg/m³ TWAEV</td>
<td>50 mg/m³ TWA</td>
<td>50 ppm TWA; 192 mg/m³ TWA</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont.)

<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 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>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceilings 200 ppm Peak (all isomers); 880 mg/m³ Peak (all isomers)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAKs 100 ppm TWA MAK; 440 mg/m³ TWA MAK</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Hexane (110-54-3)</td>
<td>TWAs 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>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceilings 400 ppm Peak; 1440 mg/m³ Peak</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAKs 50 ppm TWA MAK; 180 mg/m³ TWA MAK</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceilings 200 ppm Peak; 760 mg/m³ Peak</td>
<td>Not established</td>
<td>Not established</td>
<td>300 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compound</td>
<td>TWAs</td>
<td>STELs</td>
<td>MAKs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------</td>
<td>------------------------</td>
<td>-----------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>Not established</td>
<td>Not established</td>
<td>50 ppm TWA MAK; 190 mg/m³ TWA MAK</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>190 mg/m³ TWA AGW</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)</td>
<td></td>
<td></td>
<td></td>
<td></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 Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
<td>Black viscous liquid with aromatic odor.</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>Odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Data lacking</td>
<td></td>
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<table>
<thead>
<tr>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
</tr>
<tr>
<td>Melting Point/Freezing 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>LEL</td>
</tr>
<tr>
<td>Autoignition</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
</tr>
<tr>
<td>UEL</td>
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<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:</th>
<th>Reproductive:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (20% TO 50%)</td>
<td>Ingestion/Oral-Rat LD50 • 636 mg/kg; Inhalation-Rat LC50 • 49 g/m² 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg;</td>
<td>Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus);</td>
</tr>
<tr>
<td></td>
<td>Irritation: Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation;</td>
<td>Reproductive Effects: Effects on Newborn: Behavioral</td>
</tr>
<tr>
<td>Xylene (2.5% TO 10%)</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;</td>
<td>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>Hexane (5% TO 20%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 25 g/kg; Inhalation-Rat LC50 • 48000 ppm 4 Hour(s);</td>
<td>Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system; Reproductive Effects: Specific Developmental Abnormalities: Urogenital system</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>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Eye Irritation 2A</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Toxic to Reproduction 2</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2</td>
</tr>
</tbody>
</table>

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

- Skin, Eye

#### Potential Health Effects

Preparation Date: 11/January/2012
Revision Date: 09/September/2016

---

Splice Adhesive SA-1065
Format: EU CLP/REACH Language: English (US)
EU DSD/DPD, EU CLP, OSHA HCS 2012, WHMIS

Page 10 of 18
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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Adhesives</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
</tbody>
</table>
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.

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>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
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</thead>
<tbody>
<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
<td>No</td>
<td>No</td>
<td>No</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>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>
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Inventory

<table>
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<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
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<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Isobutylene-isoprene polymer</td>
<td>9010-85-9</td>
<td>Yes</td>
<td>No</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>No</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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Inventory (Con’t.)

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<th>CAS</th>
<th>Japan ENCS</th>
<th>Korea KECL</th>
<th>TSCA</th>
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<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>
</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

#### Australia - High Volume Industrial Chemicals List

- **Isobutylene-Isoprene polymer**
  - 9010-85-9
  - Not Listed

- **Toluene**
  - 108-88-3

- **Xylene**
  - 1330-20-7

- **Hexane**
  - 110-54-3

- **1,6-Diisocyanatohexane 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

- **Xylene**
  - 1330-20-7

- **Hexane**
  - 110-54-3

- **1,6-Diisocyanatohexane 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

- **Xylene**
  - 1330-20-7

- **Hexane**
  - 110-54-3

- **1,6-Diisocyanatohexane homopolymer**
  - 28182-81-2
  - Not Listed

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

- **Isobutylene-Isoprene polymer**
  - 9010-85-9
  - Not Listed

- **Toluene**
  - 108-88-3

- **Xylene**
  - 1330-20-7

- **Hexane**
  - 110-54-3

- **1,6-Diisocyanatohexane homopolymer**
  - 28182-81-2
  - Not Listed

**Australia - Priority Existing Chemical Program**

- **Isobutylene-Isoprene polymer**
  - 9010-85-9
  - Not Listed

- **Toluene**
  - 108-88-3

- **Xylene**
  - 1330-20-7

- **Hexane**
  - 110-54-3

---

**Preparation Date:** 11/January/2012  
**Revision Date:** 09/September/2016  
**Format:** EU CLP/REACH Language: English (US)  
**EU DSD/DPD, EU CLP, OSHA HCS 2012, WHMIS**
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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>WHMIS Classification</th>
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<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>B2, D2A, D2B</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>B2, D2A, D2B</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>B2, D2A, D2B</td>
</tr>
<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
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</table>

**Bulgaria**

**Environment**

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>MAHCL</th>
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<td>Not Listed</td>
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<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>0.25 mg/m3</td>
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<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>0.1 mg/m3</td>
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<td>Hexane</td>
<td>110-54-3</td>
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<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
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</tbody>
</table>

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>WHMIS Classification</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>B2, D2A, D2B</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>B2, D2A, D2B</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>B2, D2A, D2B</td>
</tr>
<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
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</tr>
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</table>

**Canada - WHMIS - Ingredient Disclosure List**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Isobutylene-Isoprene polymer</td>
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<td>1 %</td>
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<td>Toluene</td>
<td>108-88-3</td>
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</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td></td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td></td>
</tr>
<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
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<td>Not Listed</td>
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</tbody>
</table>

**Environment**

**Canada - CEPA - Priority Substances List**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Priority Substance List</th>
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<tbody>
<tr>
<td>Isobutylene-Isoprene polymer</td>
<td>9010-85-9</td>
<td>Priority Substance List 1</td>
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<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Priority Substance List 1</td>
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<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Priority Substance List 1</td>
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<tr>
<td>Hexane</td>
<td>110-54-3</td>
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<tr>
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<td>28182-81-2</td>
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</table>

**Europe**

**Other**

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>WHMIS Classification</th>
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<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>F: R11 Xi; R38 Xn; R48/20-65</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>R10 Xn; R20/21 Xi; R38</td>
</tr>
<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>F: R11 Xi; R38 N; R51-53</td>
</tr>
<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
<td>28182-81-2</td>
<td>Not Listed</td>
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

<table>
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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration Limits</th>
</tr>
</thead>
<tbody>
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<td>Isobutylene-Isoprene polymer</td>
<td>9010-85-9</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
• Toluene 108-88-3 Not Listed
• Xylene 1330-20-7 12.5%<=C: Xn; R20/21
• Hexane 110-54-3 5%<=C: Xn; R48/20
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
• Isobutylene-isoprene polymer 9010-85-9 Not Listed
• Toluene 108-88-3 F Xn R:11-38-48/20-63-65-67
• Xylene 1330-20-7 Xn R:10-20/21-38 S:(2)-25
• Hexane 110-54-3 67-51/53 S:(2)-9-16-29-33-36/37-61-62
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
• Isobutylene-isoprene polymer 9010-85-9 Not Listed
• Toluene 108-88-3 Not Listed
• Xylene 1330-20-7 C
• Hexane 110-54-3 Not Listed
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases
• Isobutylene-isoprene polymer 9010-85-9 Not Listed
• Toluene 108-88-3 S:(2)-36/37-46-62
• Xylene 1330-20-7 S:(2)-25
• Hexane 110-54-3 S:(2)-9-16-29-33-36/37-61-62
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

Mexico

Other
Mexico - Hazard Classifications
• Isobutylene-isoprene polymer 9010-85-9 Not Listed
• Toluene 108-88-3 Hazard Class = 3 PG = II UN1294
• Xylene 1330-20-7 Hazard Class = 3 PG = II UN1307; Hazard Class = 3 PG = III UN1307
• Hexane 110-54-3 Not Listed
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

Mexico - Regulated Substances
• Isobutylene-isoprene polymer 9010-85-9 Not Listed
• Toluene 108-88-3 UN1294
• Xylene 1330-20-7 UN1307; UN1307
• Hexane 110-54-3 Not Listed
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

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

Preparation Date: 11/January/2012
Revision Date: 09/September/2016

Format: EU CLP/REACH Language: English (US)
EU DSD/DPD, EU CLP, OSHA HCS 2012, WHMIS
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<td>U.S. - OSHA - Specifically Regulated Chemicals</td>
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<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
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<tr>
<td>Hexane</td>
<td>110-54-3</td>
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<td>1,6-Diisocyanatohexane homopolymer</td>
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<td>Environment</td>
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<td>Toluene</td>
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<td>Xylene</td>
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<td>Xylene</td>
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<td>100 lb final RQ; 45.4 kg final RQ</td>
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<td>110-54-3</td>
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<td>Isobutylene-isoprene polymer</td>
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<tr>
<td>Toluene</td>
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<tr>
<td>Xylene</td>
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<tr>
<td>Hexane</td>
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<tr>
<td>1,6-Diisocyanatohexane homopolymer</td>
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<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>
<tr>
<td>Hexane</td>
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<td>1.0 % de minimis concentration</td>
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<td>Xylene</td>
<td>1330-20-7</td>
<td>1.0 % de minimis concentration</td>
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<tr>
<td>Hexane</td>
<td>110-54-3</td>
<td>1.0 % de minimis concentration</td>
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<td>1,6-Diisocyanatohexane homopolymer</td>
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</tr>
<tr>
<td>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</td>
<td></td>
<td></td>
</tr>
<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>Not Listed</td>
</tr>
</tbody>
</table>
Hexane 110-54-3 Not Listed
1,6-Diisocyanatohexane 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
- 1,6-Diisocyanatohexane 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
- 1,6-Diisocyanatohexane 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
- 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity
- Isobutylene-isoprene polymer 9010-85-9 Not Listed
developmental toxicity, initial date 1/1/91
- Toluene 108-88-3
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
- Isobutylene-isoprene polymer 9010-85-9 Not Listed
female reproductive toxicity, initial date 8/7/09
- Toluene 108-88-3
- Xylene 1330-20-7 Not Listed
- Hexane 110-54-3 Not Listed
- 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
- 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
- 1,6-Diisocyanatohexane homopolymer 28182-81-2 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
• Xylene 1330-20-7
• Hexane 110-54-3 Not Listed
• 1,6-Diisocyanatohexane 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 Not Listed
• Xylene 1330-20-7 Not Listed
• Hexane 110-54-3 Not Listed
• 1,6-Diisocyanatohexane 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
• 1,6-Diisocyanatohexane homopolymer 28182-81-2 Not Listed

15.2 Chemical Safety Assessment
• No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date 09/September/2016
Preparation Date 11/January/2012

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Key to abbreviations
NDA = No data available