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

1.1 Product identifier

Product Name  ●  All Purpose Primer

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

Relevant identified use(s)  ●  Adhesive

1.3 Details of the supplier of the safety data sheet

Manufacturer  ●  Firestone Building Products Company
250 West 96th Street
Indianapolis, IN 46260
United States

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

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

2.2 Label Elements

CLP  ●  DANGER
Hazard statements

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

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces.
- P233 - Ground and/or bond container and receiving equipment.
- P253 - Use explosion-proof electrical/ventilating/lighting/equipment.
- P240 - Use only non-sparking tools.
- P241 - 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.
- P280 - Wear protective gloves and eye/face protection.
- P281 - Use personal protective equipment as required.

Response

- P370+P378 - In case of fire: Use appropriate media for extinction.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P362 - Take off contaminated clothing and wash before reuse.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P314 - Get medical advice/attention if you feel unwell.
- P391 - Collect spillage.

Storage/Disposal

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

DSD/DPD

Risk phrases

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

Safety phrases

- S9 - Keep container in a well ventilated place
- S16 - Keep away from sources of ignition - No Smoking.
- S37 - Wear suitable gloves.
2.3 Other Hazards

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

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

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

2.1 Classification of the substance or mixture

OSHA HCS 2012
- Flammable Liquids 2 - H225
- Acute Toxicity Oral 4 - H302
- Aspiration 1 - H304
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Reproductive Toxicity 2 - H361

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Highly flammable liquid and vapour - H225
- Harmful if swallowed - H302
- May be fatal if swallowed and enters airways - H304
- Causes skin irritation - H315
- Causes serious eye irritation - H319
- May cause drowsiness or dizziness - H336
- May cause respiratory irritation - H335
- Suspected of damaging fertility or the unborn child. - H361

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
- Avoid breathing mist/vapours/spray. - P261
- 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): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
- Specific treatment, see supplemental first aid information. - P321
- Take off contaminated clothing and wash before reuse. - P362
- If skin irritation occurs: Get medical advice/attention. - P332+P313
- 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
Do NOT induce vomiting. - P331
IF exposed or concerned: Get medical advice/attention. - P308+P313

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

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).

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>
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<td>Light aliphatic solvent naphtha</td>
<td>CAS:64742-89-8</td>
<td>40%</td>
<td>NDA</td>
<td>EU DSD/DPD: Annex VI, Table 3.2 - Xn R65, R67; Xi, R38; N; R51/53</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>EINECS:265-192-2</td>
<td>TO 60%</td>
<td></td>
<td>EU CLP: Annex VI, Table 3.1 - Flam. Liq. 2, H225; Skin Irrit. 2; H315; Asp. Tox. 1, H304; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Flam Liq. 2; Eye Irrit. 2; Skin Irrit. 2; Asp. Tox. 1; STOT SE 3: Narc. &amp; Resp. Irrit.</td>
<td></td>
</tr>
</tbody>
</table>
Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention.

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

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

Ingestion
- Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Carbon dioxide, sand, extinguishing powder.

Unsuitable Extinguishing Media
- Water

5.2 Special hazards arising from the substance or mixture

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

Hazardous Combustion Products
- Carbon oxides, nitrogen oxides, silicon oxides.

5.3 Advice for firefighters
- Structural firefighters’ protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. LARGE FIRES: Fight fire from maximum distance or use unmanned hose holders or...
monitor nozzles.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.
Stop leak if safe to do so.
If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out.

---

**Section 6 - Accidental Release Measures**

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

**Personal Precautions**
- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing.

**Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

### 6.2 Environmental precautions
- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

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

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

---

**Section 7 - Handling and Storage**

### 7.1 Precautions for safe handling

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

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

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

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

---

**Section 8 - Exposure Controls/Personal Protection**
## 8.1 Control parameters

### Exposure Limits/Guidelines

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Australia</th>
<th>Belgium</th>
<th>Canada Alberta</th>
<th>Canada British Columbia</th>
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</thead>
<tbody>
<tr>
<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>
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<td>Not established</td>
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<tr>
<td>TWAs</td>
<td>20 ppm TWA</td>
<td>50 ppm TWA; 191 mg/m³ TWA</td>
<td>22 ppm TWA; 77 mg/m³ TWA</td>
<td>50 ppm TWA; 188 mg/m³ TWA</td>
<td>20 ppm TWA</td>
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</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>
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<tbody>
<tr>
<td>STELs</td>
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<td>Not established</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td>Not established</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
</tr>
<tr>
<td>TWAs</td>
<td>20 ppm TWA</td>
<td>50 ppm TWA; 188 mg/m³ TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
</tr>
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</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>
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<td>STELs</td>
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<td>Not established</td>
<td>Not established</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td>100 mg/m³ STEL</td>
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<tr>
<td>TWAs</td>
<td>20 ppm TWA</td>
<td>50 ppm TWAEV; 188 mg/m³ TWAEV</td>
<td>50 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
<td>50 mg/m³ TWA</td>
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### Exposure Limits/Guidelines (Con't.)

<table>
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<tr>
<th>Result</th>
<th>Cyprus</th>
<th>Denmark</th>
<th>Europe</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
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</thead>
<tbody>
<tr>
<td>STELs</td>
<td>100 ppm STEL; 384 mg/m³ STEL</td>
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<td>100 ppm STEL; 384 mg/m³ STEL</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>
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<tr>
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<td>Ceilings</td>
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<td>Not established</td>
<td>200 ppm Peak; 760 mg/m³ Peak</td>
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### Exposure Limits/Guidelines (Con't.)

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<th>OSHA</th>
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<td>Ceilings</td>
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<td>300 ppm Ceiling</td>
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<tr>
<td>TWAs</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
<td>200 ppm TWA</td>
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</tbody>
</table>
Exposure Control Notations
Cyprus
• Toluene (108-88-3): Skin: (Skin-potential for cutaneous absorption)
Germany TRGS
• Toluene (108-88-3): Skin: (skin notation)
Germany DFG
• Toluene (108-88-3): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to) | Skin: (skin notation)

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

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

Eye/Face
• Wear safety goggles.

Skin/Body
• Wear appropriate gloves.

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

Key to abbreviations
ACGIH = American Conference of Governmental Industrial Hygiene
MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration

STELs
150 ppm STEL; 560 mg/m3 STEL
Not established

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>Translucent to clear liquid with characteristic solvent odor.</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Translucent to clear</td>
<td>Odor</td>
<td>Characteristic solvent.</td>
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<table>
<thead>
<tr>
<th>General Properties</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Decomposition Temperature</th>
<th>pH</th>
<th>Specific Gravity/Relative Density</th>
<th>Water Solubility</th>
<th>Viscosity</th>
<th>Explosive Properties</th>
<th>Oxidizing Properties</th>
<th>Viscosity</th>
<th>Vapor Pressure</th>
<th>Vapor Density</th>
<th>Volatility</th>
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<td>Data lacking</td>
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<td>Property</td>
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<td>Flammability (solid, gas)</td>
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</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

- Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

- None known.

### Section 11 - Toxicological Information

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (20% TO 40%)</td>
<td>108-88-3</td>
<td><strong>Acute Toxicity:</strong> orl-rat LD50:636 mg/kg; ihl-rat LC50:49 gm/m3/4H; skn-rbt LD50:14100 uL/kg; <strong>Irritation:</strong> eye-rbt 2 mg/24H SEV; skn-rbt 500 mg MOD; <strong>Mutagen:</strong> sce-hmn-ihl 252 ug/L/19Y; <strong>Reproductive:</strong> ihl-rat TClO:2000 ppm (multigeneration)</td>
</tr>
<tr>
<td>Silica, amorphous fumed (&lt; 5%)</td>
<td>112945-52-5</td>
<td><strong>Acute Toxicity:</strong> orl-rat LD50:3160 mg/kg; <strong>Multi-dose Toxicity:</strong> ihl-rat TClO:154 mg/m3/6H/4W-I</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></td>
<td>OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATE mix (oral) = 691.209245 mg/kg</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 • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Category</td>
<td>EU/CLP</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>Skin Irritation 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>Specific Target Organ Toxicity Repeated Exposure 2</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>Toxic to Reproduction 2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>Classification criteria not met</td>
</tr>
</tbody>
</table>

**Target Organs**
- Central Nervous System (CNS)

**Route(s) of entry/exposure**
- Inhalation, Skin, Eye, Ingestion

**Potential Health Effects**

**Inhalation**
- **Acute (Immediate)**
  - May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- **Chronic (Delayed)**
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin**
- **Acute (Immediate)**
  - Causes skin irritation.
- **Chronic (Delayed)**
  - No data available.

**Eye**
- **Acute (Immediate)**
  - Causes serious eye irritation.
- **Chronic (Delayed)**
  - No data available.

**Ingestion**
- **Acute (Immediate)**
  - Harmful if swallowed. Material may be aspirated into the lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.
- **Chronic (Delayed)**
  - No data available.

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

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

**Key to abbreviations**
- LC = Lethal Concentration
- LD = Lethal Dose
- MOD = Moderate
- SEV = Severe
- TC = Toxic Concentration

---

### Section 12 - Ecological Information

#### 12.1 Toxicity
12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN1133 Adhesives, containing a flammable liquid</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>UN1133 ADHESIVES containing flammable liquid</td>
<td>3</td>
<td>II</td>
<td>Potential Marine Pollutant</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1133 ADHESIVES, containing a flammable liquid</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>ADN</td>
<td>UN1133 ADHESIVES containing flammable liquid</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>UN1133 ADHESIVES, containing a flammable liquid</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1133 Adhesives, containing a flammable liquid</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 73/78 and the IBC Code**

- Not relevant.

### Section 15 - Regulatory Information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications  · Acute, Chronic, Fire

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</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>
</tbody>
</table>

Inventory

<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>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<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>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</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

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

Australia - High Volume Industrial Chemicals List

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

Australia - List of Designated Hazardous Substances - Classification

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

Environment

Australia - National Pollutant Inventory (NPI) Substance List

- Toluene 108-88-3 10 tonne/yr Threshold category 1
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Australia - Priority Existing Chemical Program**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>List Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Candidate chemical</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Belgium**

<table>
<thead>
<tr>
<th>Labor</th>
<th>Substances and Preparations - Carcinogens and Mutagens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
</tr>
</tbody>
</table>

**Bulgaria**

<table>
<thead>
<tr>
<th>Environment</th>
<th>Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute</td>
</tr>
<tr>
<td>Environmental</td>
<td>Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
</tr>
</tbody>
</table>

**Canada**

<table>
<thead>
<tr>
<th>Labor</th>
<th>Canada - WHMIS - Classifications of Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada - WHMIS - Ingredient Disclosure List</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Light aliphatic solvent naphtha</td>
<td>64742-89-8</td>
</tr>
<tr>
<td>Silica, amorphous fumed</td>
<td>112945-52-5</td>
</tr>
</tbody>
</table>

**Environment**

<table>
<thead>
<tr>
<th>Canada - CEPA - Priority Substances List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
</tr>
</tbody>
</table>
• Light aliphatic solvent naphtha 64742-89-8 Not Listed
• Silica, amorphous fumed 112945-52-5 Not Listed

Canada New Brunswick

Environment

Canada - New Brunswick - Ozone Depleting Substances - Schedule A

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

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

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

China

Other

China - Annex I & II - Controlled Chemicals Lists

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

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

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

Europe

Other

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

• Toluene 108-88-3 F; R11 Xi; R38 Xn; R48/20-65
• Light aliphatic solvent naphtha 64742-89-8 Repr.Cat.3; R63 R67
• Silica, amorphous fumed 112945-52-5 Carc.Cat.2; R45 Muta.Cat.2;

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

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

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

• Toluene 108-88-3 F Xn R:11-38-48/20-63-65-67
• Light aliphatic solvent naphtha 64742-89-8 S:2)-36/37-46-62
• Silica, amorphous fumed 112945-52-5 T R:45-46-65 S:53-45
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

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

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

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

Germany

Labor
Germany - Immission Control - Qualifying Quantities for Major Accident Prevention
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - TRGS 505 - Specific Lead Regulations
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Environment
Germany - TA Luft - Types and Classes
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - TA Luft - Emission Limits for Fibers
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dumps
- Toluene 108-88-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Silica, amorphous fumed 112945-52-5 Not Listed
### Germany - TA Luft - Emission Limits for Inorganic Gases
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

### Germany - TA Luft - Emission Limits for Organic Substances
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

### Germany - Water Classification (VwVwS) - Annex 1
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
- Toluene: 108-88-3, ID Number 194, hazard class 2 - hazard to waters
- Light aliphatic solvent naphtha: 64742-89-8, ID Number 27, hazard class 1 - low hazard to waters
- Silica, amorphous fumed: 112945-52-5, Not Listed

### Germany - Water Classification (VwVwS) - Annex 3
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

### United States - Labor
**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

### Environment
**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
- Toluene: 108-88-3, 1000 lb final RQ; 454 kg final RQ
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
- Silica, amorphous fumed: 112945-52-5, Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
- Toluene: 108-88-3, Not Listed
- Light aliphatic solvent naphtha: 64742-89-8, Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Toluene  108-88-3  Not Listed
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Toluene  108-88-3  Not Listed
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
• Toluene  108-88-3  1.0 % de minimis concentration
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
• Toluene  108-88-3  Not Listed
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII
• Toluene  108-88-3  Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring
• Toluene  108-88-3
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261
• Toluene  108-88-3  waste number U220
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents
• Toluene  108-88-3  Not Listed
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards
• Toluene  108-88-3  0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring
• Toluene  108-88-3  Not Listed
• Light aliphatic solvent naphtha  64742-89-8  Not Listed
• Silica, amorphous fumed  112945-52-5  Not Listed
### U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

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

### United States - California

#### Environment

- **U.S. - California - Proposition 65 - Carcinogens List**
  - Toluene 108-88-3 Not Listed
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - California - Proposition 65 - Developmental Toxicity**
  - Toluene 108-88-3 developmental toxicity, initial date 1/1/91
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
  - Toluene 108-88-3 7000 µg/day MADL (level represents absorbed dose)
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**
  - Toluene 108-88-3 Not Listed
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - California - Proposition 65 - Reproductive Toxicity - Female**
  - Toluene 108-88-3 female reproductive toxicity, initial date 8/7/09
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - California - Proposition 65 - Reproductive Toxicity - Male**
  - Toluene 108-88-3 Not Listed
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

### United States - Pennsylvania

#### Labor

- **U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
  - Toluene 108-88-3 Not Listed
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed

- **U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
  - Toluene 108-88-3 Not Listed
  - Light aliphatic solvent naphtha 64742-89-8 Not Listed
  - Silica, amorphous fumed 112945-52-5 Not Listed
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### Section 16 - Other Information

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<tr>
<th>Last Revision Date</th>
<th>11/March/2014</th>
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**Key to abbreviations**

NDA = No data available