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

1.1 Product identifier

Product Name  ●  Bead Sealer
Product Code  ●  94-394

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

Relevant identified use(s)  ●  Tire repair surface preparation

1.3 Details of the supplier of the safety data sheet

Manufacturer  ●  Patch Rubber Company
100 Patch Rubber Road
Weldon, NC 27890
United States

Telephone (General)  ●  (252)-536-2574

Responsible party  ●  Christian Gimenez
Intertek Analytical Services France
France

Telephone (Technical)  ●  33 (0) 6 07 11 22 15

1.4 Emergency telephone number

Manufacturer  ●  1-800-424-9300 - CHEMTREC
Manufacturer  ●  +1 703-527-3887 - CHEMTREC - Outside USA & CANADA (collect calls accepted)

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
● Hazardous to the aquatic environment Chronic 1 - H410
● Hazardous to the aquatic environment Acute 1 - H400

DSD/DPD

● Highly Flammable (F)
● Irritant (Xi)
● Harmful (Xn)
● Dangerous to the Environment (N)
● R11, R50, R53, R38, R67
2.2 Label Elements

CLP

DANGER

- H225 - Highly flammable liquid and vapour
- H315 - Causes skin irritation
- H336 - May cause drowsiness or dizziness
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 - Do NOT induce vomiting.

Storage/Disposal
- 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.
- R67 - Vapours may cause drowsiness and dizziness.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.

Safety phrases
- S2 - Keep out of reach of children.
- S9 - Keep container in a well ventilated place
- S16 - Keep away from sources of ignition - No Smoking.
- S29 - Do not empty into drains.
- S33 - Take precautionary measures against static discharges.
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.
- S62 - If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

2.3 Other Hazards

CLP

According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
This material contain less than 0.1% Benzene therefore the carcinogen and mutagen classifications listed in Annex VI are not applicable.

DSD/DPD

According to European Directive 1999/45/EC this preparation is not considered dangerous.
This material contain less than 0.1% Benzene therefore the carcinogen and mutagen classifications listed in Annex I are not applicable.

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS
- Flammable Liquids 2 - H225
- Skin Irritation 2 - H315
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Hazardous to the aquatic environment Acute 1 - H400
Hazardous to the aquatic environment Chronic 1 - H410

2.2 Label elements

UN GHS

DANGER

- H225 - Highly flammable liquid and vapour
- H315 - Causes skin irritation
- H336 - May cause drowsiness or dizziness
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- P235 - Keep cool.
- P243 - Take precautionary measures against static discharge.
- P240 - Ground and/or bond container and receiving equipment.
- P242 - Use only non-sparking tools.
- P241 - Use explosion-proof - electrical, ventilating and/or lighting equipment.
- P271 - Use only outdoors or in a well-ventilated area.
- P233 - Keep container tightly closed.
- P280 - Avoid breathing dust, fume, gas, mist, vapours and/or spray.
- P264 - Wash thoroughly after handling.

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.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P362 - Take off contaminated clothing and wash before reuse.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 - Do NOT induce vomiting.
- P391 - Collect spillage.

Storage/Disposal
- P403+P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS

- According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

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

2.1 Classification of the substance or mixture

OSHA HCS

- Flammable Liquid
- Flammable/Combustible Class IB
- Irritant
- Target Organ Effects - Central Nervous System (CNS)

2.2 Label elements
2.3 Other hazards


2.4 Other information

Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 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>%(weight)</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS:64742-49-</td>
<td></td>
<td></td>
<td></td>
<td>UN GHS: Flam Liq 2; Asp. 1; Skin Irrit. 2; STOT SE 3: Narc.; Aquatic Acute 1; Aquatic Chronic 1;</td>
<td></td>
</tr>
</tbody>
</table>
See Section 11 for Toxicological Information.

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.

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

Eye
- 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.

Ingestion
- Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

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
- Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to the material.

See Section 2 for Potential Health Effects.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Carbon dioxide (CO2), water fog, dry chemical or chemical foam.

Unsuitable Extinguishing
- Avoid the use of streaming water, as this may spread the fire.
Media

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.
  - Extremely flammable liquid and vapor.
  - Vapors may form explosive mixtures with air.
  - Vapor explosion hazard indoors, outdoors or in sewers.
  - Vapors may travel to source of ignition and flash back.
  - Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products

- Smoke, soot, fumes or vapors, oxides of carbon.

5.3 Advice for firefighters

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

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

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

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  - All equipment used when handling the product must be grounded.
  - 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.
  - LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

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 and ignition sources – No Smoking. Product can accumulate static charge by flow or agitation. Bond and ground equipment when transferring from one vessel to another. Empty containers retain product residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other ignition sources. They may explode and cause injury or death. Use only with adequate ventilation. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

7.2 Conditions for safe storage, including any incompatibilities
Storage

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or Ignition Sources

- Keep away from heat, ignition sources oxidizers and strong acids.

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>Result</th>
<th>ACIGH</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>Europe</th>
<th>France</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWAs</td>
<td>400 ppm TWA</td>
<td>400 ppm TWAEV; 1600 mg/m3 TWAEV</td>
<td>400 ppm TWAEV; 1610 mg/m3 TWAEV</td>
<td>Not established</td>
<td>400 ppm VME; 1600 mg/m3 VME</td>
</tr>
</tbody>
</table>

#### Methylcyclohexane (108-87-2)

| STELs | 500 ppm STEL | Not established | Not established | Not established | Not established |
| TWAs | 400 ppm TWA | Not established | Not established | Not established | Not established |

#### 3-Methylhexane (589-34-4)

| STELs | 500 ppm STEL | Not established | Not established | Not established | Not established |
| TWAs | 400 ppm TWA | Not established | Not established | Not established | Not established |

#### Hexane, 2-methyl- (591-76-4)

| STELs | 500 ppm STEL | Not established | Not established | Not established | Not established |
| TWAs | 400 ppm TWA | Not established | Not established | Not established | Not established |

#### Pentane, 2,3-dimethyl- (565-59-3)

| STELs | 500 ppm STEL | Not established | Not established | Not established | Not established |
| TWAs | 400 ppm TWA | Not established | Not established | Not established | Not established |

#### Ethylbenzene (100-41-4)

| STELs | 125 ppm STEL | 125 ppm STEV; 540 mg/m3 STEV | 125 ppm STEV; 543 mg/m3 STEV | Not established | 100 ppm VLCT (restrictive limit); 442 mg/m3 VLCT (restrictive limit) |
| TWAs | 100 ppm TWA | 100 ppm TWAEV; 435 mg/m3 TWAEV | 100 ppm TWAEV; 434 mg/m3 TWAEV | Not established | 20 ppm VME (restrictive limit); 88.4 mg/m3 VME (restrictive limit) |

#### Benzene (71-43-2)

<p>| STELs | 2.5 ppm STEL | 2.5 ppm STEV (applies to workplaces to which the designated substance regulation does not apply); 2.5 ppm STEV (designated substances regulation) | 2.5 ppm STEV; 15.5 mg/m3 STEV | Not established | Not established |
| TWAs | 0.5 ppm TWA | 0.5 ppm TWAEV (applies to workplaces to which the designated substance regulation does not apply); 0.5 ppm TWAEV (designated substance regulation) | 1 ppm TWAEV; 3 mg/m3 TWAEV | Not established | 1 ppm VME (restrictive limit); 3.25 mg/m3 VME (restrictive limit) |
| TWAs | 10 ppm TWA | 10 ppm TWAEV; 30 mg/m3 TWAEV | 10 ppm TWAEV; 30 mg/m3 TWAEV | Not established | 10 ppm VME (indicative limit); 31 mg/m3 VME |</p>
<table>
<thead>
<tr>
<th>Substance</th>
<th>STELs/ TWAs</th>
<th>Result</th>
<th>Italy</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propionic acid (79-09-4)</td>
<td>STELs: Not established, TWAs: 2 mg/m3 TWA, 2 mg/m3 TWAEV</td>
<td></td>
<td></td>
<td></td>
<td>20 ppm VLCT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(indicative limit); 62 mg/m3 VLCT</td>
</tr>
<tr>
<td>Kaolin (1332-58-7)</td>
<td>STELs: Not established, TWAs: 2 mg/m3 TWA, 2 mg/m3 TWAEV</td>
<td>5 mg/m3 TWAEV</td>
<td>100 ppm STEL</td>
<td>100 ppm STEL</td>
<td>100 ppm VLCT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>384 mg/m3 STEL</td>
<td>(restrictive limit); 384 mg/m3 VLCT</td>
<td>(restrictive limit)</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>STELs: Not established, TWAs: 20 ppm TWA, 20 ppm TWAEV</td>
<td>50 ppm TWAEV</td>
<td>50 ppm TWAEV; 188 mg/m3 TWAEV</td>
<td>50 ppm TWA; 192 mg/m3 TWA</td>
<td>50 ppm VME</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 ppm TWAEV; 188 mg/m3 TWAEV</td>
<td>50 ppm TWA; 192 mg/m3 TWA</td>
<td>(restrictive limit); 192 mg/m3 VME</td>
</tr>
<tr>
<td>Fuels, diesel, No. 2 (68476-34-6)</td>
<td>TWAs: 100 mg/m3 TWA (as total hydrocarbons, inhalable fraction and vapor)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Calcium silicate (1344-95-2)</td>
<td>TWAs: 10 mg/m3 TWA (synthetic nonfibrous, particulate matter containing no asbestos and &lt;1% crystalline silica)</td>
<td>10 mg/m3 TWAEV (total dust)</td>
<td>10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Zinc oxide (1314-13-2)</td>
<td>STELs: 10 mg/m3 STEL (respirable fraction)</td>
<td>10 mg/m3 STEV (respirable)</td>
<td>10 mg/m3 STEV (respirable)</td>
<td>5 mg/m3 TWAEV (fume); 10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)</td>
<td>Not established</td>
</tr>
<tr>
<td>Carbon Black (1333-86-4)</td>
<td>TWAs: 3.5 mg/m3 TWA</td>
<td>3.5 mg/m3 TWAEV</td>
<td>3.5 mg/m3 TWAEV</td>
<td>Not established</td>
<td>3.5 mg/m3 VME</td>
</tr>
<tr>
<td>Heptane (142-82-5)</td>
<td>STELs: 500 ppm STEL</td>
<td>500 ppm STEV; 2045 mg/m3 STEV</td>
<td>500 ppm STEV; 2050 mg/m3 STEV</td>
<td>Not established</td>
<td>500 ppm VLCT (restrictive limit); 2085 mg/m3 VLCT (restrictive limit)</td>
</tr>
<tr>
<td></td>
<td>TWAs: 400 ppm TWA</td>
<td>400 ppm TWAEV; 1635 mg/m3 TWAEV</td>
<td>400 ppm TWAEV; 1640 mg/m3 TWAEV</td>
<td>Not established</td>
<td>400 ppm VME (restrictive limit); 1668 mg/m3 VME (restrictive limit)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>STELs/ TWAs</th>
<th>Result</th>
<th>Italy</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylcyclohexane (108-87-2)</td>
<td>TWAs: Not established</td>
<td>400 ppm TWA; 1600 mg/m3 TWA</td>
<td>500 ppm TWA; 2000 mg/m3 TWA</td>
<td>500 ppm TWA; 2000 mg/m3 TWA</td>
<td></td>
</tr>
</tbody>
</table>
### Ethylbenzene (100-41-4)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>200 ppm STEL; 884 mg/m³ STEL</td>
<td>125 ppm STEL; 545 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>100 ppm TWA; 442 mg/m³ TWA</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
</tr>
</tbody>
</table>

### Benzene (71-43-2)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>1 ppm STEL</td>
<td></td>
</tr>
<tr>
<td>TWAs</td>
<td>1 ppm TWA; 3.25 mg/m³ TWA</td>
<td>0.1 ppm TWA</td>
<td>10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>25 ppm Ceiling</td>
</tr>
</tbody>
</table>

### Propionic acid (79-09-4)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>20 ppm STEL; 62 mg/m³ STEL</td>
<td>15 ppm STEL; 45 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>10 ppm TWA; 31 mg/m³ TWA</td>
<td>10 ppm TWA; 30 mg/m³ TWA</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Kaolin (1332-58-7)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>1 ppm STEL</td>
<td></td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
</tr>
</tbody>
</table>

### Toluene (108-88-3)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>192 ppm TWA; 50 mg/m³ TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>300 ppm Ceiling</td>
</tr>
</tbody>
</table>

### Calcium silicate (1344-95-2)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>5 mg/m³ TWA (dust and fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Zinc oxide (1314-13-2)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>5 mg/m³ TWA (fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m³ Ceiling (dust)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Carbon Black (1333-86-4)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>3.5 mg/m³ TWA; 0.1 mg/m³ TWA (carbon black in presence of polycyclic aromatic hydrocarbons, as PAH)</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>3.5 mg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>

### Heptane (142-82-5)

<table>
<thead>
<tr>
<th></th>
<th>STELs</th>
<th>TWAs</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>10 mg/m³ STEL (fume)</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>500 ppm TWA; 2085 mg/m³ TWA</td>
<td>85 ppm TWA; 350 mg/m³ TWA</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>440 ppm Ceiling (15 min); 1800 mg/m³ Ceiling (15 min)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

---

### 8.2 Exposure controls

**Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

**Personal Protective Equipment**

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Preparation Date: 12/April/2012
Revision Date: 12/April/2012

OSHA, WHMIS, UN GHS, EU DSD/DPD, EU CLP
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>
</tr>
</thead>
<tbody>
<tr>
<td>Black flammable liquid with a hydrocarbon odor.</td>
<td>Liquid</td>
<td>Black flammable liquid with a hydrocarbon odor.</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>Density</td>
</tr>
<tr>
<td>Bulk Density</td>
</tr>
<tr>
<td>Water Solubility</td>
</tr>
<tr>
<td>Solvent Solubility</td>
</tr>
<tr>
<td>Viscosity</td>
</tr>
<tr>
<td>Explosive Properties</td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
</tr>
<tr>
<td>Volatility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor Pressure</th>
<th>45 mmHg (torr) @ 20 C(68 F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Density</td>
<td>3.5 Air=1</td>
</tr>
</tbody>
</table>

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
TWAEV = Time-Weighted Average Exposure Value
STEL = Short Term Exposure Limits are based on 15-minute exposures
VME = Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day
STEV = Short Term Exposure Value
VLCT = Valeurs limites d'exposition à court terme is the short-term exposure limit based on 15-minute exposure.
MSHA = Mine Safety and Health Administration
# 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
- High temperatures, sparks, open flames and live electrical circuits.

## 10.5 Incompatible materials
- Oxidizing agents, strong acids.

## 10.6 Hazardous decomposition products
- In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

---

9.2 Other Information

- No additional physical and chemical parameters noted.

---

# Section 11 - Toxicological Information
11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>GHS Properties</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>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irrigation</td>
<td>EU/CLP • Skin Irritation 2</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Skin Irritation 2</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • 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>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td></td>
<td>UN GHS • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>UN GHS • 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 affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. Intentional concentration and inhalation of vapors of this material may lead to nervous system damage.
- Chronic (Delayed)
  - No data available.

Skin
- Acute (Immediate)
  - Causes skin irritation.
- Chronic (Delayed)
  - Repeated and prolonged exposure may cause dermatitis.

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

Ingestion
- Acute (Immediate)
  - May cause irritation.
- Chronic (Delayed)
  - No data available.

Carcinogenic Effects
- This product contains carbon black (encapsulated)(1333-86-4). According to IARC "No significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint."
**Carcinogenic Effects**

<table>
<thead>
<tr>
<th>CAS</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Group 2B-Possible Carcinogen</td>
</tr>
</tbody>
</table>

---

### Section 12 - Ecological Information

#### 12.1 Toxicity
- Material data lacking.

#### 12.2 Persistence and degradability
- No data available

#### 12.3 Bioaccumulative potential
- Material data lacking.

#### 12.4 Mobility in Soil
- Material data lacking.

#### 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.

#### Ecological Fate
- No data available.

#### 12.7 Other Information
- No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

---

### 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 UN1133</td>
<td>Adhesives, containing a flammable liquid</td>
<td>NDA</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG UN1133</td>
<td>ADHESIVES containing flammable liquid</td>
<td>3</td>
<td>II</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IMO/IMDG UN1133</td>
<td>ADHESIVES containing flammable liquid</td>
<td>3</td>
<td>II</td>
<td>Marine Pollutant</td>
</tr>
</tbody>
</table>
14.6 Special precautions for user
None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
This product is provided only in non-bulk containers.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA Hazard Classifications
Acute, Fire

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3-Methylhexane</td>
<td>589-34-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hexane, 2-methyl-</td>
<td>591-76-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzanilide, 2'';2''''-dithiobis-</td>
<td>135-57-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</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>Tall oil</td>
<td>8002-26-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Preparation Date: 12/April/2012
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Format: EU CLP/REACH Language: English (US)
OSHA, WHMIS, UN GHS, EU DSD/DPD, EU CLP
<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>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3-Methylhexane</td>
<td>589-34-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hexane, 2-methyl-</td>
<td>591-76-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Benzanilide, 2',2''-dithiobis-</td>
<td>135-57-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Tall oil</td>
<td>8002-26-4</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

---

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### Canada - WHMIS - Classifications of Substances

- **Fuels, diesel, No. 2**
  - Code: 68476-34-6
  - Concentration: 0.1% TO 1.5%
  - Classification: Not Listed

- **Calcium silicate**
  - Code: 1344-95-2
  - Concentration: 0.2466% TO 0.2468%
  - Classification: Uncontrolled product according to WHMIS classification criteria

- **Stearic acid**
  - Code: 57-11-4
  - Concentration: 0.0022%
  - Classification: Uncontrolled product according to WHMIS classification criteria

- **Tall oil**
  - Code: 8002-26-4
  - Concentration: 0.0352%
  - Classification: Uncontrolled product according to WHMIS classification criteria

- **Naphtha (petroleum), hydrotreated light**
  - Code: 64742-49-0
  - Concentration: 60% TO 100%
  - Classification: Not Listed

- **Ethylbenzene**
  - Code: 100-41-4
  - Concentration: < 0.001%
  - Classification: B2, D2A, D2B

- **Carbon Black**
  - Code: 1333-86-4
  - Concentration: 1% TO 5%
  - Classification: D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS website.)

- **Ethylbenzene**
  - Code: 100-41-4
  - Concentration: < 0.001%
  - Classification: B2, D2A, D2B

- **Heptane**
  - Code: 142-82-5
  - Concentration: 24.888% TO 37.332%
  - Classification: B2, D2B

- **Toluene**
  - Code: 108-88-3
  - Concentration: < 0.05%
  - Classification: B2, D2A, D2B

- **Zinc oxide**
  - Code: 1314-13-2
  - Concentration: 0.5% TO 1.5%
  - Classification: Uncontrolled product according to WHMIS classification criteria

- **Zinc oxide as Zinc compounds**
  - Code: 71-43-2
  - Concentration: 0.001%
  - Classification: B2, D2A, D2B

- **Benzene**
  - Code: 71-43-2
  - Concentration: < 0.001%
  - Classification: B2, D2A, D2B

- **Rosin oil**
  - Code: 68425-08-1
  - Concentration: 0.0581%
  - Classification: Not Listed

- **Benzanilide, 2',2'''-dithiobis-**
  - Code: 135-57-9
  - Concentration: 0.02% TO 0.024%
  - Classification: Not Listed

- **Pentane, 2,3-dimethyl-**
  - Code: 565-59-3
  - Concentration: 0% TO 4.148%
  - Classification: B2

- **3-Ethylpentane**
  - Code: 617-78-7
  - Concentration: 0% TO 5%
  - Classification: Not Listed

### Canada - WHMIS - Ingredient Disclosure List

- **Fuels, diesel, No. 2**
  - Code: 68476-34-6
  - Concentration: 0.1% TO 1.5%
  - Classification: Not Listed

- **Calcium silicate**
  - Code: 1344-95-2
  - Concentration: 0.2466% TO 0.2468%
  - Classification: Not Listed

- **Stearic acid**
  - Code: 57-11-4
  - Concentration: 0.0022%
  - Classification: 1%

- **Tall oil**
  - Code: 8002-26-4
  - Concentration: 0.0352%
  - Classification: Not Listed

- **Naphtha (petroleum), hydrotreated light**
  - Code: 64742-49-0
  - Concentration: 60% TO 100%
  - Classification: Not Listed
Bead Sealer

Environment

EU

- Methylcyclohexane 108-87-2 0% TO 20% 1%
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% 1%
- Carbon Black 1333-86-4 1% TO 5% 1%
- Ethylbenzene 100-41-4 < 0.001% 0.1%
- Heptane 142-82-5 24.888% TO 37.332% 1%
- Toluene 108-88-3 < 0.05% 1%
- Zinc oxide 1314-13-2 0.5% TO 1.5% 1%
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% 0.1%
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

Canada - CEPA - Priority Substances List

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Priority Substance List 1 (substance not considered toxic)
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% Priority Substance List 1 (substance considered toxic)
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

Europe

Other

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Carc.Cat.3; R40

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Revision Date: 12/April/2012
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
- Methycyclohexane 108-87-2 0% TO 20% F; R11 Xi; R38 N; R51 R53 Xn; R65 R67
- 3-Methylhexane 589-34-4 0% TO 24.888% F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
- Hexane, 2-methyl- 591-76-4 0% TO 15% F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 < 0.001% F; R11 Xn; R20
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylenbenzene 100-41-4 < 0.001% F; R11 Xn; R20
- Heptane 142-82-5 24.888% TO 37.332% F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
- Toluene 108-88-3 < 0.05% F; R11 Xi; R38 Xn; R48/20 R65 Repr.Cat.3; R63 R67
- Zinc oxide 1314-13-2 0.5% TO 1.5% N; R50 R53
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzenanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% F; R11 Xi; R38 N; R50 R53 Xn; R65 R67
- 3-Ethylpentane 617-78-7 0% TO 5% F; R11 Xi; R38 N; R50 R53 Xn; R65 R67

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Health &amp; Safety Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>0.1% TO 1.5%</td>
<td>H</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>0.2466% TO 0.2468%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>0.0022%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil</td>
<td>8002-26-4</td>
<td>0.0352%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>60% TO 100%</td>
<td>T R:45-46-65 S:53-45</td>
</tr>
<tr>
<td>Methycyclohexane</td>
<td>108-87-2</td>
<td>0% TO 20%</td>
<td>F Xn N R:11-38-51/53-65-67 S:(2)-9-16-33-61-62</td>
</tr>
<tr>
<td>3-Methylhexane</td>
<td>589-34-4</td>
<td>0% TO 24.888%</td>
<td>F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62</td>
</tr>
<tr>
<td>Hexane, 2-methyl-</td>
<td>591-76-4</td>
<td>0% TO 15%</td>
<td>F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>0.4127%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>0.016% TO 0.02%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>0.0011% TO 0.0056%</td>
<td>C:34 S:(1/2)-23-36-45</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1% TO 5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 0.001%</td>
<td>F Xn R:11-20 S:(2)-16-24/25-29</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>N R:50/53 S:60-61</td>
</tr>
<tr>
<td>Zinc oxide as Zinc compounds</td>
<td></td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>F T R:45-46-11-36-38-48/23/24/25-65 S:53-45</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>0.0581%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzanilide, 2',2''-dithiobis-</td>
<td>135-57-9</td>
<td>0.02% TO 0.024%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>0% TO 4.148%</td>
<td>F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>0% TO 5%</td>
<td>F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>0.1% TO 1.5%</td>
<td>S:(2)-36/37</td>
</tr>
</tbody>
</table>

Revision Date: 12/April/2012
- Calcium silicate  1344-95-2  0.2466% TO 0.2468%  Not Listed
- Stearic acid  57-11-4  0.0022%  Not Listed
- Tall oil  8002-26-4  0.0352%  Not Listed
- Naphtha (petroleum), hydrotreated light  64742-49-0  60% TO 100%  S:53-45
- Methylcyclohexane  108-87-2  0% TO 20%  S:(2)-9-16-33-61-62
- 3-Methylhexane  589-34-4  0% TO 24.888%  S:(2)-9-16-29-33-60-61-62
- Hexane, 2-methyl-  591-76-4  0% TO 15%  S:(2)-9-16-29-33-60-61-62
- Tall oil pitch  8016-81-7  0.4127%  Not Listed
- Kaolin  1332-58-7  0.016% TO 0.02%  Not Listed
- Propionic acid  79-09-4  0.0011% TO 0.0056%  S:(1/2)-23-36-45
- Carbon Black  1333-86-4  1% TO 5%  Not Listed
- Ethylbenzene  100-41-4  < 0.001%  S:(2)-16-24/25-29
- Heptane  142-82-5  24.888% TO 37.332%  S:(2)-9-16-29-33-60-61-62
- Toluene  108-88-3  < 0.05%  S:(2)-36/37/46-62
- Zinc oxide  1314-13-2  0.5% TO 1.5%  S:60-61
- Zinc oxide as Zinc compounds  0.5% TO 1.5%  Not Listed
- Benzene  71-43-2  < 0.001%  S:53-45
- Rosin oil  68425-08-1  0.0581%  Not Listed
- Benzenanilide, 2',2'''-dithiobis-  135-57-9  0.02% TO 0.024%  Not Listed
- Pentane, 2,3-dimethyl-  565-59-3  0% TO 4.148%  S:(2)-9-16-29-33-60-61-62
- 3-ethylpentane  617-78-7  0% TO 5%  S:(2)-9-16-29-33-60-61-62

United States

Labor

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

- Fuels, diesel, No. 2  68476-34-6  0.1% TO 1.5%  Not Listed
- Calcium silicate  1344-95-2  0.2466% TO 0.2468%  Not Listed
- Stearic acid  57-11-4  0.0022%  Not Listed
- Tall oil  8002-26-4  0.0352%  Not Listed
- Naphtha (petroleum), hydrotreated light  64742-49-0  60% TO 100%  Not Listed
- Methylcyclohexane  108-87-2  0% TO 20%  Not Listed
- 3-Methylhexane  589-34-4  0% TO 24.888%  Not Listed
- Hexane, 2-methyl-  591-76-4  0% TO 15%  Not Listed
- Tall oil pitch  8016-81-7  0.4127%  Not Listed
- Kaolin  1332-58-7  0.016% TO 0.02%  Not Listed
- Propionic acid  79-09-4  0.0011% TO 0.0056%  Not Listed
- Carbon Black  1333-86-4  1% TO 5%  Not Listed
- Ethylbenzene  100-41-4  < 0.001%  Not Listed
- Heptane  142-82-5  24.888% TO 37.332%  Not Listed
- Toluene  108-88-3  < 0.05%  Not Listed
- Zinc oxide  1314-13-2  0.5% TO 1.5%  Not Listed
- Zinc oxide as Zinc compounds  0.5% TO 1.5%  Not Listed
- Benzene  71-43-2  < 0.001%  Not Listed
- Rosin oil  68425-08-1  0.0581%  Not Listed
- Benzenanilide, 2',2'''-dithiobis-  135-57-9  0.02% TO 0.024%  Not Listed
- Pentane, 2,3-dimethyl-  565-59-3  0% TO 4.148%  Not Listed
- 3-ethylpentane  617-78-7  0% TO 5%  Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

Preparation Date: 12/April/2012
Revision Date: 12/April/2012

OSHA, WHMIS, UN GHS, EU DSD/DPD, EU CLP
### Environment

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>0.1% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>0.2466% TO 0.2468%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>0.0022%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil</td>
<td>8002-26-4</td>
<td>0.0352%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>60% TO 100%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>0% TO 20%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Methylhexane</td>
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<td>0% TO 24.888%</td>
<td>Not Listed</td>
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<td>0% TO 15%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>0.4127%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>0.016% TO 0.02%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>0.0011% TO 0.0056%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1% TO 5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 0.001%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>24.888% TO 37.332%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide as Zinc compounds</td>
<td></td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>0.0581%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzanilide, 2',2'''-dithiobis-</td>
<td>135-57-9</td>
<td>0.02% TO 0.024%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>0% TO 4.148%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>0% TO 5%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

---

**Revision Date:** 12/April/2012

**Preparation Date:** 12/April/2012

**Format:** EU CLP/REACH

**Language:** English (US)
### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- **Fuels, diesel, No. 2**: 68476-34-6, 0.1% TO 1.5%, Not Listed
- **Calcium silicate**: 1344-95-2, 0.2466% TO 0.2468%, Not Listed
- **Stearic acid**: 57-11-4, 0.0022%, Not Listed
- **Tall oil**: 8002-26-4, 0.0352%, Not Listed
- **Naphtha (petroleum), hydrotreated light**: 64742-49-0, 60% TO 100%, Not Listed
- **Methylcyclohexane**: 108-87-2, 0% TO 20%, Not Listed
- **3-Methylhexane**: 589-34-4, 0% TO 24.888%, Not Listed
- **Hexane, 2-methyl-**: 591-76-4, 0% TO 15%, Not Listed
- **Tall oil pitch**: 8016-81-7, 0.4127%, Not Listed
- **Kaolin**: 1332-58-7, 0.016% TO 0.02%, Not Listed
- **Propionic acid**: 79-09-4, 0.0011% TO 0.0056%, 5000 lb final RQ; 2270 kg final RQ
- **Carbon Black**: 1333-86-4, 1% TO 5%, Not Listed
- **Ethylbenzene**: 100-41-4, < 0.001%, 1000 lb final RQ; 454 kg final RQ
- **Heptane**: 142-82-5, 24.888% TO 37.332%, Not Listed
- **Toluene**: 108-88-3, < 0.05%, 1000 lb final RQ; 454 kg final RQ
- **Zinc oxide**: 1314-13-2, 0.5% TO 1.5%, Not Listed
- **Zinc oxide as Zinc compounds**: 5.5% TO 1.5%, Not Listed
- **Benzene**: 71-43-2, < 0.001%, 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)
- **Rosin oil**: 68425-08-1, 0.0581%, Not Listed
- **Benzazilide, 2',2'''-dithiobis-**: 135-57-9, 0.02% TO 0.024%, Not Listed
- **Pentane, 2,3-dimethyl-**: 565-59-3, 0% TO 4.148%, Not Listed
- **3-Ethylpentane**: 617-78-7, 0% TO 5%, Not Listed

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

- **Fuels, diesel, No. 2**: 68476-34-6, 0.1% TO 1.5%, Not Listed
- **Calcium silicate**: 1344-95-2, 0.2466% TO 0.2468%, Not Listed
- **Stearic acid**: 57-11-4, 0.0022%, Not Listed
- **Tall oil**: 8002-26-4, 0.0352%, Not Listed
- **Naphtha (petroleum), hydrotreated light**: 64742-49-0, 60% TO 100%, Not Listed
- **Methylcyclohexane**: 108-87-2, 0% TO 20%, Not Listed
- **3-Methylhexane**: 589-34-4, 0% TO 24.888%, Not Listed
- **Hexane, 2-methyl-**: 591-76-4, 0% TO 15%, Not Listed
- **Tall oil pitch**: 8016-81-7, 0.4127%, Not Listed
- **Kaolin**: 1332-58-7, 0.016% TO 0.02%, Not Listed
- **Propionic acid**: 79-09-4, 0.0011% TO 0.0056%, Not Listed
- **Carbon Black**: 1333-86-4, 1% TO 5%, Not Listed
- **Ethylbenzene**: 100-41-4, < 0.001%, Not Listed
- **Heptane**: 142-82-5, 24.888% TO 37.332%, Not Listed
- **Toluene**: 108-88-3, < 0.05%, Not Listed
- **Zinc oxide**: 1314-13-2, 0.5% TO 1.5%, Not Listed
- **Zinc oxide as Zinc compounds**: 0.5% TO 1.5%, Not Listed
- **Benzene**: 71-43-2, < 0.001%, Not Listed
- **Rosin oil**: 68425-08-1, 0.0581%, Not Listed
- Benzanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.88% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.88% TO 37.33% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% Not Listed
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.88% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.88% TO 37.33% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% Not Listed
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0066% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% 0.1 % de minimis concentration
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% 1.0 % de minimis concentration
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% 1.0 % de minimis concentration (Chemical Category N982)
- Benzene 71-43-2 < 0.001% 0.1 % de minimis concentration
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2,2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0066% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% Not Listed
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2,2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Included in waste stream: F039
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151, K159, K169, K171, K172
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed
Bead Sealer

- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% 0.5 mg/L regulatory level
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% Not Listed
- Zinc oxide as Zinc compounds 0.5% TO 1.5% Not Listed
- Benzene 71-43-2 < 0.001% waste number U220
- Rosin oil 68425-08-1 0.0581% Not Listed
**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**

- **Benzanilide, 2',2'''-dithiobis-** 135-57-9 0.02% TO 0.024% Not Listed
- **Pentane, 2,3-dimethyl-** 565-59-3 0% TO 4.148% Not Listed
- **3-Ethylpentane** 617-78-7 0% TO 5% Not Listed

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

- **Fuels, diesel, No. 2** 68476-34-6 0.1% TO 1.5% Not Listed
- **Calcium silicate** 1344-95-2 0.2466% TO 0.2468% Not Listed
- **Stearic acid** 57-11-4 0.0022% Not Listed
- **Tall oil** 8002-26-4 0.0352% Not Listed
- **Naphtha (petroleum), hydrotreated light** 64742-49-0 60% TO 100% Not Listed
- **Methylcyclohexane** 108-87-2 0% TO 20% Not Listed
- **3-Methylhexane** 589-34-4 0% TO 24.888% Not Listed
- **Hexane, 2-methyl-** 591-76-4 0% TO 15% Not Listed
- **Tall oil pitch** 8016-81-7 0.4127% Not Listed
- **Kaolin** 1332-58-7 0.016% TO 0.02% Not Listed
- **Propionic acid** 79-09-4 0.0011% TO 0.0056% Not Listed
- **Carbon Black** 1333-86-4 1% TO 5% Not Listed
- **Ethylbenzene** 100-41-4 < 0.001% Not Listed
- **Heptane** 142-82-5 24.888% TO 37.332% Not Listed
- **Toluene** 108-88-3 < 0.05% Not Listed
- **Zinc oxide** 1314-13-2 0.5% TO 1.5% Not Listed
- **Zinc oxide as Zinc compounds** 0.5% TO 1.5% Not Listed
- **Benzene** 71-43-2 < 0.001% Not Listed
- **Rosin oil** 68425-08-1 0.0581% Not Listed
- **Benzanilide, 2',2'''-dithiobis-** 135-57-9 0.02% TO 0.024% Not Listed
- **Pentane, 2,3-dimethyl-** 565-59-3 0% TO 4.148% Not Listed
- **3-Ethylpentane** 617-78-7 0% TO 5% Not Listed

**Revision Date:** 12/April/2012

**Preparation Date:** 12/April/2012

Format: EU CLP/REACH Language: English (US)
OSHA, WHMIS, UN GHS, EU DSD/DPD, EU CLP

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- **Pentane, 2,3-dimethyl-** 565-59-3 0% TO 4.148% Not Listed
- **3-Ethylpentane** 617-78-7 0% TO 5% Not Listed

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

- **Fuels, diesel, No. 2** 68476-34-6 0.1% TO 1.5% Not Listed
- **Calcium silicate** 1344-95-2 0.2466% TO 0.2468% Not Listed
- **Stearic acid** 57-11-4 0.0022% Not Listed
- **Tall oil** 8002-26-4 0.0352% Not Listed
- **Naphtha (petroleum), hydrotreated light** 64742-49-0 60% TO 100% Not Listed
- **Methylcyclohexane** 108-87-2 0% TO 20% Not Listed
- **3-Methylhexane** 589-34-4 0% TO 24.888% Not Listed
- **Hexane, 2-methyl-** 591-76-4 0% TO 15% Not Listed
- **Tall oil pitch** 8016-81-7 0.4127% Not Listed
- **Kaolin** 1332-58-7 0.016% TO 0.02% Not Listed
- **Propionic acid** 79-09-4 0.0011% TO 0.0056% Not Listed
- **Carbon Black** 1333-86-4 1% TO 5% Not Listed
- **Ethylbenzene** 100-41-4 < 0.001% Not Listed
- **Heptane** 142-82-5 24.888% TO 37.332% Not Listed
- **Toluene** 108-88-3 < 0.05% Not Listed
- **Zinc oxide** 1314-13-2 0.5% TO 1.5% Not Listed
- **Zinc oxide as Zinc compounds** 0.5% TO 1.5% Not Listed
- **Benzene** 71-43-2 < 0.001% Not Listed
- **Rosin oil** 68425-08-1 0.0581% Not Listed
- **Benzenilide, 2',2''-dithiobis-** 135-57-9 0.02% TO 0.024% Not Listed

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

- **Fuels, diesel, No. 2** 68476-34-6 0.1% TO 1.5% Not Listed
- **Calcium silicate** 1344-95-2 0.2466% TO 0.2468% Not Listed
- **Stearic acid** 57-11-4 0.0022% Not Listed
- **Tall oil** 8002-26-4 0.0352% Not Listed
- **Naphtha (petroleum), hydrotreated light** 64742-49-0 60% TO 100% Not Listed
- **Methylcyclohexane** 108-87-2 0% TO 20% Not Listed
- **3-Methylhexane** 589-34-4 0% TO 24.888% Not Listed
- **Hexane, 2-methyl-** 591-76-4 0% TO 15% Not Listed
- **Tall oil pitch** 8016-81-7 0.4127% Not Listed
- **Kaolin** 1332-58-7 0.016% TO 0.02% Not Listed
- **Propionic acid** 79-09-4 0.0011% TO 0.0056% Not Listed
- **Carbon Black** 1333-86-4 1% TO 5% Not Listed
- **Ethylbenzene** 100-41-4 < 0.001% Not Listed
- **Heptane** 142-82-5 24.888% TO 37.332% Not Listed
- **Toluene** 108-88-3 < 0.05% waste number U220
- **Zinc oxide** 1314-13-2 0.5% TO 1.5% waste number U019 (Ignitable waste, Toxic waste)
- **Benzene** 71-43-2 < 0.001% waste number U019 (Ignitable waste, Toxic waste)
- **Rosin oil** 68425-08-1 0.0581% Not Listed
- **Benzenilide, 2',2''-dithiobis-** 135-57-9 0.02% TO 0.024% Not Listed
### United States - California

#### Environment

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration Range</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogen, initial date 2/27/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 0.001%</td>
<td>Carcinogen, initial date 6/11/04</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>24.888% TO 37.332%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>Carcinogen, initial date 2/27/87</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>0.0581%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzenilide, 2',2'''-dithiobis-</td>
<td>135-57-9</td>
<td>0.02% TO 0.024%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>0% TO 4.148%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>0% TO 5%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration Range</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogen, initial date 2/27/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>24.888% TO 37.332%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Revision Date:** 12/April/2012

**Preparation Date:** 12/April/2012
Zinc oxide as Zinc compounds  0.5% TO 1.5%  Not Listed
Benzene  71-43-2 < 0.001%  developmental toxicity, initial date 12/26/97
Rosin oil  68425-08-1 0.0581%  Not Listed
Benzenal, 2',2'''-dithiobis-  135-57-9 0.02% TO 0.024%  Not Listed
Pentane, 2,3-dimethyl-  565-59-3 0% TO 4.148%  Not Listed
3-Ethylpentane  617-78-7 0% TO 5%  Not Listed

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

Fuels, diesel, No. 2  68476-34-6 0.1% TO 1.5%  Not Listed
Calcium silicate  1344-95-2 0.2466% TO 0.2468%  Not Listed
Stearic acid  57-11-4 0.0022%  Not Listed
Tall oil  8002-26-4 0.0352%  Not Listed
Naphtha (petroleum), hydrotreated light  64742-49-0 60% TO 100%  Not Listed
Methylcyclohexane  108-87-2 0% TO 20%  Not Listed
3-Methylhexane  589-34-4 0% TO 24.888%  Not Listed
Hexane, 2-methyl-  591-76-4 0% TO 15%  Not Listed
Tall oil pitch  8016-81-7 0.4127%  Not Listed
Kaolin  1332-58-7 0.016% TO 0.02%  Not Listed
Propionic acid  79-09-4 0.0011% TO 0.0056%  Not Listed
Carbon Black  1333-86-4 1% TO 5%  Not Listed
Ethylbenzene  100-41-4 < 0.001%  Not Listed
Heptane  142-82-5 24.888% TO 37.332%  Not Listed
Toluene  108-88-3 < 0.05%  Not Listed
Zinc oxide  134-13-2 0.5% TO 1.5%  Not Listed
Zinc oxide as Zinc compounds  0.5% TO 1.5%  Not Listed
Benzenal, 2',2'''-dithiobis-  135-57-9 0.02% TO 0.024%  Not Listed
Pentane, 2,3-dimethyl-  565-59-3 0% TO 4.148%  Not Listed
3-Ethylpentane  617-78-7 0% TO 5%  Not Listed

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

Fuels, diesel, No. 2  68476-34-6 0.1% TO 1.5%  Not Listed
Calcium silicate  1344-95-2 0.2466% TO 0.2468%  Not Listed
Stearic acid  57-11-4 0.0022%  Not Listed
Tall oil  8002-26-4 0.0352%  Not Listed
Naphtha (petroleum), hydrotreated light  64742-49-0 60% TO 100%  Not Listed
Methylcyclohexane  108-87-2 0% TO 20%  Not Listed
3-Methylhexane  589-34-4 0% TO 24.888%  Not Listed
Hexane, 2-methyl-  591-76-4 0% TO 15%  Not Listed
Tall oil pitch  8016-81-7 0.4127%  Not Listed
Kaolin  1332-58-7 0.016% TO 0.02%  Not Listed
Propionic acid  79-09-4 0.0011% TO 0.0056%  Not Listed
Carbon Black  1333-86-4 1% TO 5%  Not Listed
Ethylbenzene  100-41-4 < 0.001%  Not Listed
Heptane  142-82-5 24.888% TO 37.332%  Not Listed
Toluene  108-88-3 < 0.05%  Not Listed
Zinc oxide  134-13-2 0.5% TO 1.5%  Not Listed
Zinc oxide as Zinc compounds  0.5% TO 1.5%  Not Listed

Revision Date:  12/April/2012
Preparation Date:  12/April/2012
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>0.0581%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzanilide, 2',2''-dithiobis-</td>
<td>135-57-9</td>
<td>0.02% TO 0.024%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>0% TO 4.148%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>0% TO 5%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>0.1% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>0.2466% TO 0.2468%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>0.0022%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil</td>
<td>8002-26-4</td>
<td>0.0352%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>60% TO 100%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>0% TO 20%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Methylhexane</td>
<td>589-34-4</td>
<td>0% TO 24.888%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexane, 2-methyl-</td>
<td>591-76-4</td>
<td>0% TO 15%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>0.4127%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>0.016% TO 0.02%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>0.0011% TO 0.0056%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1% TO 5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 0.001%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>24.888% TO 37.332%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>female reproductive toxicity, initial date 8/7/09</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide as Zinc compounds</td>
<td></td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Rosin oil</td>
<td>68425-08-1</td>
<td>0.0581%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzanilide, 2',2''-dithiobis-</td>
<td>135-57-9</td>
<td>0.02% TO 0.024%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane, 2,3-dimethyl-</td>
<td>565-59-3</td>
<td>0% TO 4.148%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Ethylpentane</td>
<td>617-78-7</td>
<td>0% TO 5%</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels, diesel, No. 2</td>
<td>68476-34-6</td>
<td>0.1% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>0.2466% TO 0.2468%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>57-11-4</td>
<td>0.0022%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil</td>
<td>8002-26-4</td>
<td>0.0352%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>60% TO 100%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>108-87-2</td>
<td>0% TO 20%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3-Methylhexane</td>
<td>589-34-4</td>
<td>0% TO 24.888%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Hexane, 2-methyl-</td>
<td>591-76-4</td>
<td>0% TO 15%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tall oil pitch</td>
<td>8016-81-7</td>
<td>0.4127%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>0.016% TO 0.02%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propionic acid</td>
<td>79-09-4</td>
<td>0.0011% TO 0.0056%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1% TO 5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 0.001%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>24.888% TO 37.332%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 0.05%</td>
<td>male reproductive toxicity, initial date 12/26/97</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc oxide as Zinc compounds</td>
<td></td>
<td>0.5% TO 1.5%</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>&lt; 0.001%</td>
<td>male reproductive toxicity, initial date 12/26/97</td>
</tr>
</tbody>
</table>
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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**United States - Pennsylvania**

**Labor**

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
- Zinc oxide 1314-13-2 0.5% TO 1.5% (including fume)
- Zinc oxide as Zinc compounds 0.5% TO 1.5%
- Benzene 71-43-2 < 0.001% Not Listed
- Rosin oil 68425-08-1 0.0581% Not Listed
- Benzanilide, 2',2'''-dithiobis- 135-57-9 0.02% TO 0.024% Not Listed
- Pentane, 2,3-dimethyl- 565-59-3 0% TO 4.148% Not Listed
- 3-Ethylpentane 617-78-7 0% TO 5% Not Listed

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

- Fuels, diesel, No. 2 68476-34-6 0.1% TO 1.5% Not Listed
- Calcium silicate 1344-95-2 0.2466% TO 0.2468% Not Listed
- Stearic acid 57-11-4 0.0022% Not Listed
- Tall oil 8002-26-4 0.0352% Not Listed
- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Methylcyclohexane 108-87-2 0% TO 20% Not Listed
- 3-Methylhexane 589-34-4 0% TO 24.888% Not Listed
- Hexane, 2-methyl- 591-76-4 0% TO 15% Not Listed
- Tall oil pitch 8016-81-7 0.4127% Not Listed
- Kaolin 1332-58-7 0.016% TO 0.02% Not Listed
- Propionic acid 79-09-4 0.0011% TO 0.0056% Not Listed
- Carbon Black 1333-86-4 1% TO 5% Not Listed
- Ethylbenzene 100-41-4 < 0.001% Not Listed
- Heptane 142-82-5 24.888% TO 37.332% Not Listed
- Toluene 108-88-3 < 0.05% Not Listed
<table>
<thead>
<tr>
<th>Total Reportable Amount</th>
<th>United States - Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Labor</td>
</tr>
<tr>
<td></td>
<td>U.S. - Rhode Island - Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fuels, diesel, No. 2</td>
</tr>
<tr>
<td></td>
<td>Calcium silicate</td>
</tr>
<tr>
<td></td>
<td>Stearic acid</td>
</tr>
<tr>
<td></td>
<td>Tall oil</td>
</tr>
<tr>
<td></td>
<td>Naphtha (petroleum), hydrotreated light</td>
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<tr>
<td></td>
<td>Hexane, 2-methyl-</td>
</tr>
<tr>
<td></td>
<td>Tall oil pitch</td>
</tr>
<tr>
<td></td>
<td>Kaolin</td>
</tr>
<tr>
<td></td>
<td>Propionic acid</td>
</tr>
<tr>
<td></td>
<td>Carbon Black</td>
</tr>
<tr>
<td></td>
<td>Ethylbenzene</td>
</tr>
<tr>
<td></td>
<td>Heptane</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td>Zinc oxide</td>
</tr>
<tr>
<td></td>
<td>Zinc oxide as Zinc compounds</td>
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<td></td>
<td>Benzenes</td>
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<td>Rosin oil</td>
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<td>Benzanilide, 2',2'''-dithiobis-</td>
</tr>
<tr>
<td></td>
<td>Pentane, 2,3-dimethyl-</td>
</tr>
<tr>
<td></td>
<td>3-Ethylpentane</td>
</tr>
</tbody>
</table>

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

---

**Section 16 - Other Information**

**Last Revision Date**
- 12/April/2012

**Preparation Date**
- 12/April/2012

**Disclaimer/Statement of Liability**
- The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third
persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations
NDA = No data available.