

## Safety Data Sheet



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

#### 1.1 Product identifier

**Product Name** • Butyl Innerliner Gum  
**Product Code** • 18-156

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

**Relevant identified use(s)** • Tire repair

#### 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 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

**CLP** • Not Classified - Classification criteria not met  
**DSD/DPD** • Not Classified - Classification criteria not met

#### 2.2 Label Elements

**CLP**  
**Hazard statements** • No label element(s) required

## DSD/DPD

Risk phrases • No label element(s) required.

## 2.3 Other Hazards

### CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

### DSD/DPD

- According to European Directive 1999/45/EC this preparation is not considered dangerous.

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

### OSHA HCS 2012

- Skin Sensitization 1 - H317
- Reproductive Toxicity 2 - H361

## 2.2 Label elements

### OSHA HCS 2012

### WARNING



**Hazard statements** • May cause an allergic skin reaction - H317  
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  
Avoid breathing dust. - P261  
Contaminated work clothing should not be allowed out of the workplace. - P272  
Wear protective gloves/protective clothing/eye protection/face protection. - P280

**Response** • If on skin: Wash with plenty of water.  
Specific treatment, see supplemental first aid information. - P321  
If skin irritation or rash occurs: Get medical advice/attention. - P333+P313  
Wash contaminated clothing before reuse. - P363  
If exposed or concerned: Get medical advice/attention. - P308+P313

**Storage/Disposal** • Store locked up. - P405  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

## 2.3 Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to WHMIS

## 2.1 Classification of the substance or mixture

### WHMIS

- Other Toxic Effects - D2A

## 2.2 Label elements

### WHMIS



- Other Toxic Effects - D2A

## 2.3 Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

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

### 3.2 Mixtures

| Composition                                                            |                                          |                  |                                                                               |                                                                                                                                                          |          |
|------------------------------------------------------------------------|------------------------------------------|------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Chemical Name                                                          | Identifiers                              | %                | LD50/LC50                                                                     | Classifications According to Regulation/Directive                                                                                                        | Comments |
| Limestone                                                              | CAS:1317-65-3<br>EC<br>Number:215-279-6  | 10%<br>TO<br>30% | NDA                                                                           | EU DSD/DPD: Self Classified: Xn, R48/20<br>EU CLP: Self Classified: STOT RE 1 (Lungs), H373<br>OSHA HCS 2012: STOT RE 1 (Lungs)                          | NDA      |
| Carbon Black                                                           | CAS:1333-86-4<br>EC<br>Number:215-609-9  | 10%<br>TO<br>30% | Ingestion/Oral-Rat<br>LD50 • >15400<br>mg/kg<br>Skin-Rabbit LD50 •<br>>3 g/kg | EU DSD/DPD: Not Classified - Criteria not met<br>EU CLP: Not Classified - Criteria not met<br>OSHA HCS 2012: Carc. 2                                     | NDA      |
| Styrene polymer with 1,3-butadiene (Kraton)                            | CAS:9003-55-8                            | 3%<br>TO<br>7%   | NDA                                                                           | EU DSD/DPD: Data Lacking<br>EU CLP: Data Lacking<br>OSHA HCS 2012: Eye Irrit. 2B                                                                         | NDA      |
| Zinc oxide                                                             | CAS:1314-13-2<br>EC<br>Number:215-222-5  | 1%<br>TO<br>5%   | NDA                                                                           | EU DSD/DPD: Annex VI: N; R50-53<br>EU CLP: Annex VI: Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>OSHA HCS 2012: Eye Irrit. 2B                      | NDA      |
| Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | CAS:64742-52-5<br>EC<br>Number:265-155-0 | 1%<br>TO<br>5%   | NDA                                                                           | EU DSD/DPD: Annex VI: Carc. 2, R45<br>EU CLP: Annex VI: Carc. 1B, H350<br>OSHA HCS 2012: Skin Irrit. 2                                                   | NDA      |
| Sulfur                                                                 | CAS:7704-34-9<br>EC<br>Number:231-722-6  | 0.1%<br>TO<br>1% | NDA                                                                           | EU DSD/DPD: Annex I: Xi; R38<br>EU CLP: Annex VI: Skin Irrit. 2, H315<br>OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.             | NDA      |
| Stearic acid                                                           | CAS:57-11-4<br>EC<br>Number:200-313-4    | 0.1%<br>TO<br>1% | Skin-Rabbit<br>LD50 • >5 g/kg<br>Ingestion/Oral-Rat<br>LD50 • 4600 mg/kg      | EU DSD/DPD: Self Classified: Xi, R38<br>EU CLP: Self Classified: Skin Irrit. 2, H315<br>OSHA HCS 2012: Skin Irrit. 2                                     | NDA      |
| Silica, amorphous                                                      | CAS:7631-86-9<br>EC<br>Number:231-       | 0.1%<br>TO<br>1% | NDA                                                                           | EU DSD/DPD: Self Classified: Xn; R48/20<br>EU CLP: Self Classified: STOT RE 2 (Lungs, Inhalation-dusts), H373<br>OSHA HCS 2012: Eye Irrit. 2B; STOT RE 2 | NDA      |

|                                        | 545-4                                    |                  |                                                                                                       | (Lungs, Inhalation-dusts)                                                                                                                                                                                                                                                                                                                                                                |     |
|----------------------------------------|------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Rosin                                  | CAS:8050-09-7<br>EC<br>Number:232-475-7  | 0.1%<br>TO<br>1% | Inhalation-Rat<br>LC50 • 110 mg/m <sup>3</sup><br>Ingestion/Oral-Rat<br>LD50 • 3 mg/kg                | EU DSD/DPD: Annex VI: R43<br>EU CLP: Annex VI: Skin Sens. 1, H317<br>OSHA HCS 2012: Acute Tox. 1 (Oral); Skin Sens. 1                                                                                                                                                                                                                                                                    | NDA |
| Quartz                                 | CAS:14808-60-7<br>EC<br>Number:238-878-4 | 0%<br>TO<br>1%   | NDA                                                                                                   | EU DSD/DPD: Self Classified: Carc. 1, R45<br>EU CLP: Self Classified: Carc. 1A, H350<br>OSHA HCS 2012: Carc. 1A                                                                                                                                                                                                                                                                          | NDA |
| Propionic acid                         | CAS:79-09-4<br>EC<br>Number:201-176-3    | 0%<br>TO<br>1%   | Ingestion/Oral-Rat<br>LD50 • 2600 mg/kg<br>Skin-Rabbit LD50 • 500 µL/kg                               | EU DSD/DPD: Annex VI: C; R34<br>EU CLP: Annex VI: Skin Corr. 1B, H314<br>OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1B; Acute Tox. 4 (Oral)                                                                                                                                                                                                                                                   | NDA |
| Phenol, p-(1,1,3,3-tetramethylbutyl)-  | CAS:140-66-9<br>EINECS:205-426-2         | 0%<br>TO<br>1%   | Skin-Rabbit<br>LD50 • 1880 mg/kg<br>Ingestion/Oral-Rat<br>LD50 • >2000 mg/kg                          | EU DSD/DPD: Annex VI: Xi; R38-41 N; R50-53<br>EU CLP: Annex VI: Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; M=10<br>OSHA HCS 2012: Acute Tox. 4 (Skin); Eye Irrit. 2A; Skin Irrit. 2                                                                                                                                                          | NDA |
| Guanidine, 1,3-diphenyl-               | CAS:102-06-7<br>EC<br>Number:203-002-1   | 0.1%<br>TO<br>1% | Ingestion/Oral-Rat<br>LD50 • 323 mg/kg<br>Skin-Rabbit LD50 • >794 mg/kg                               | EU DSD/DPD: Annex VI: Repr. Cat. 3, R62; Xn, R22; Xi, R36/37/38; N, R51-53<br>EU CLP: Annex VI: Repr. 2, H361; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Aquatic Chronic 2, H411<br>OSHA HCS 2012: Eye Irrit. 2A; Acute Tox. 4 (Dermal, Oral); Repr. 2                                                                                 | NDA |
| Formaldehyde (Gas State)               | CAS:50-00-0<br>EC<br>Number:200-001-8    | 0%<br>TO<br>1%   | NDA                                                                                                   | EU CLP: Community workplace exposure limit                                                                                                                                                                                                                                                                                                                                               | NDA |
| Fatty acids, tall oil                  | CAS:61790-12-3<br>EINECS:263-107-3       | 0.1%<br>TO<br>1% | Ingestion/Oral-Rat<br>LD50 • >10000 mg/kg                                                             | EU DSD/DPD: Data Lacking<br>EU CLP: Data Lacking<br>OSHA HCS 2012: Data Lacking                                                                                                                                                                                                                                                                                                          | NDA |
| Disulfide, bis (dimethylthiocarbamoyl) | CAS:137-26-8<br>EC<br>Number:205-286-2   | 0.1%<br>TO<br>1% | Ingestion/Oral-Rat<br>LD50 • 560 mg/kg<br>Inhalation-Rat<br>LC50 • 500 mg/m <sup>3</sup><br>4 Hour(s) | EU DSD/DPD: Annex VI: Xn, R20/22-48/22; Xi, R36/38, R43; N, R50-53<br>EU CLP: Annex VI: Acute Tox. 4, H332; Acute Tox. 4, H302; STOT RE 2, H373; Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; M=10<br>OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2; STOT SE 3: Resp. Irrit.; Skin Sens. 1; Acute Tox. 4 (Oral, Inhalation) | NDA |
| Benzothiazole, 2,2'-dithiobis-         | CAS:120-78-5<br>EC<br>Number:204-424-9   | 0.1%<br>TO<br>1% | Ingestion/Oral-Rat<br>LD50 • >12 g/kg<br>Skin-Rabbit LD50 • >7940 mg/kg                               | EU DSD/DPD: Environment(N); R31; R43; R50; R53<br>EU CLP: Annex VI: Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>OSHA HCS 2012: Skin Sens. 1A; Eye Irrit. 2                                                                                                                                                                                                     | NDA |

See Section 11 for Toxicological Information. See section 16 for full text of H-statements and R-phrases.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- |                   |                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b> | <ul style="list-style-type: none"> <li>• Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.</li> </ul>                 |
| <b>Skin</b>       | <ul style="list-style-type: none"> <li>• In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Get medical attention if symptoms occur.</li> </ul> |
| <b>Eye</b>        | <ul style="list-style-type: none"> <li>• In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.</li> </ul>                                          |
| <b>Ingestion</b>  | <ul style="list-style-type: none"> <li>• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.</li> </ul>                                    |

### 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

- |                           |                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to Physician</b> | <ul style="list-style-type: none"> <li>• 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.</li> </ul> |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- |                                       |                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | <ul style="list-style-type: none"> <li>• LARGE FIRE: Water spray, fog or regular foam.</li> <li>• SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.</li> </ul> |
| <b>Unsuitable Extinguishing Media</b> | <ul style="list-style-type: none"> <li>• No data available.</li> </ul>                                                                                                               |

### 5.2 Special hazards arising from the substance or mixture

- |                                           |                                                                                                                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unusual Fire and Explosion Hazards</b> | <ul style="list-style-type: none"> <li>• Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.</li> </ul> |
| <b>Hazardous Combustion Products</b>      | <ul style="list-style-type: none"> <li>• No data available.</li> </ul>                                                                                                      |

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Runoff from fire control may cause pollution.
- LARGE FIRES: Dike fire-control water for later disposal.

## Section 6 - Accidental Release Measures

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

- |                             |                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b> | <ul style="list-style-type: none"> <li>• Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid any skin contact.</li> </ul> |
| <b>Emergency Procedures</b> | <ul style="list-style-type: none"> <li>• No emergency procedures are expected to be necessary if material is used under ordinary conditions as as recommended.</li> </ul>       |

### 6.2 Environmental precautions

- Avoid run off to waterways and sewers.

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

- |                                      |                                                                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Containment/Clean-up Measures</b> | <ul style="list-style-type: none"> <li>• Pick up pieces and place in container or bag for disposal.</li> <li>• For spills of molten product - allow product to cool/solidify and pick or scrape up as a solid.</li> </ul> |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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

- Wear appropriate personal protective equipment. Use only with adequate ventilation. Avoid breathing processing vapors. Avoid contact with skin and eyes. Use good safety and industrial hygiene practices.

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

#### Storage

- Ventilate enclosed areas.

### 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            |          |                 |                 |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                            |
|---------------------------------------|----------|-----------------|-----------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                       | Result   | ACGIH           | Canada Ontario  | Canada Quebec                                                     | China                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | France                                                                                     |
| Formaldehyde (Gas State)<br>(50-00-0) | Ceilings | 0.3 ppm Ceiling | 1.5 ppm Ceiling | 2 ppm Ceiling; 3 mg/m <sup>3</sup> Ceiling                        | 0.5 mg/m <sup>3</sup> Ceiling [MAC]                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not established                                                                            |
|                                       | STELs    | Not established | 1.0 ppm STEL    | Not established                                                   | Not established                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 ppm STEL [VLCT]                                                                          |
|                                       | TWAs     | Not established | Not established | Not established                                                   | Not established                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5 ppm TWA [VME]                                                                          |
| Propionic acid<br>(79-09-4)           | STELs    | Not established | Not established | Not established                                                   | 60 mg/m <sup>3</sup> STEL                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20 ppm STEL [VLCT] (indicative limit); 62 mg/m <sup>3</sup> STEL [VLCT] (indicative limit) |
|                                       | TWAs     | 10 ppm TWA      | 10 ppm TWA      | 10 ppm TWA <sub>EV</sub> ; 30 mg/m <sup>3</sup> TWA <sub>EV</sub> | 30 mg/m <sup>3</sup> TWA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 ppm TWA [VME] (indicative limit); 31 mg/m <sup>3</sup> TWA [VME] (indicative limit)     |
| Quartz<br>(14808-60-7)                | STELs    | Not established | Not established | Not established                                                   | 2 mg/m <sup>3</sup> STEL (10%-50% free SiO <sub>2</sub> , total dust); 1.4 mg/m <sup>3</sup> STEL (50%-80% free SiO <sub>2</sub> , total dust); 1 mg/m <sup>3</sup> STEL (containing >80% free SiO <sub>2</sub> , total dust); 1.4 mg/m <sup>3</sup> STEL (10%-50% free SiO <sub>2</sub> , respirable dust); 0.6 mg/m <sup>3</sup> STEL (50%-80% free SiO <sub>2</sub> , respirable dust); 0.4 mg/m <sup>3</sup> STEL (containing >80% free SiO <sub>2</sub> , respirable dust) | Not established                                                                            |
|                                       |          |                 |                 |                                                                   | 0.7 mg/m <sup>3</sup> TWA (containing 50-80% free SiO <sub>2</sub> , total                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                            |

|                                                   |               |                                                           |                                                                                                             |                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                             |
|---------------------------------------------------|---------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                   | TWAs          | 0.025 mg/m <sup>3</sup> TWA (respirable fraction)         | 0.10 mg/m <sup>3</sup> TWA (designated substances regulation, respirable, listed under Silica, crystalline) | 0.1 mg/m <sup>3</sup> TWAEV (respirable dust)                                                                                | dust); 0.3 mg/m <sup>3</sup> TWA (containing 50-80% free SiO <sub>2</sub> , respirable dust); 1 mg/m <sup>3</sup> TWA (containing 10-50% free SiO <sub>2</sub> , total dust); 0.7 mg/m <sup>3</sup> TWA (containing 10-50% free SiO <sub>2</sub> , respirable dust); 0.5 mg/m <sup>3</sup> TWA (containing >80% free SiO <sub>2</sub> , total dust); 0.2 mg/m <sup>3</sup> TWA (containing >80% free SiO <sub>2</sub> , respirable dust) | 0.1 mg/m <sup>3</sup> TWA [VME] (restrictive limit, alveolar fraction)      |
| Disulfide, bis (dimethylthiocarbamoyl) (137-26-8) | TWAs          | 0.05 mg/m <sup>3</sup> TWA (inhalable fraction and vapor) | 0.05 mg/m <sup>3</sup> TWA (inhalable fraction and vapor)                                                   | 5 mg/m <sup>3</sup> TWAEV                                                                                                    | Not established                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 mg/m <sup>3</sup> TWA [VME]                                               |
| Rosin (8050-09-7)                                 | TWAs          | Not established                                           | exposure by all routes should be carefully controlled to levels as low as possible                          | 0.1 mg/m <sup>3</sup> TWAEV (as Formaldehyde)                                                                                | Not established                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.1 mg/m <sup>3</sup> TWA [VME] (as Formaldehyde)                           |
| Zinc oxide (1314-13-2)                            | STELs         | 10 mg/m <sup>3</sup> STEL (respirable fraction)           | 10 mg/m <sup>3</sup> STEL (respirable)                                                                      | 10 mg/m <sup>3</sup> STEV (fume)                                                                                             | 5 mg/m <sup>3</sup> STEL                                                                                                                                                                                                                                                                                                                                                                                                                 | Not established                                                             |
|                                                   | TWAs          | 2 mg/m <sup>3</sup> TWA (respirable fraction)             | 2 mg/m <sup>3</sup> TWA (respirable)                                                                        | 10 mg/m <sup>3</sup> TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m <sup>3</sup> TWAEV (fume) | 3 mg/m <sup>3</sup> TWA                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 mg/m <sup>3</sup> TWA [VME] (fume); 10 mg/m <sup>3</sup> TWA [VME] (dust) |
| Carbon Black (1333-86-4)                          | STELs         | Not established                                           | Not established                                                                                             | Not established                                                                                                              | 8 mg/m <sup>3</sup> STEL (total dust)                                                                                                                                                                                                                                                                                                                                                                                                    | Not established                                                             |
|                                                   | TWAs          | 3 mg/m <sup>3</sup> TWA (inhalable fraction)              | 3 mg/m <sup>3</sup> TWA (inhalable)                                                                         | 3.5 mg/m <sup>3</sup> TWAEV                                                                                                  | 4 mg/m <sup>3</sup> TWA (total dust)                                                                                                                                                                                                                                                                                                                                                                                                     | 3.5 mg/m <sup>3</sup> TWA [VME]                                             |
| Limestone (1317-65-3)                             | STELs         | Not established                                           | Not established                                                                                             | Not established                                                                                                              | 16 mg/m <sup>3</sup> STEL (total dust); 8 mg/m <sup>3</sup> STEL (respirable dust)                                                                                                                                                                                                                                                                                                                                                       | Not established                                                             |
|                                                   | TWAs          | Not established                                           | Not established                                                                                             | 10 mg/m <sup>3</sup> TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)                        | 8 mg/m <sup>3</sup> TWA (total dust); 4 mg/m <sup>3</sup> TWA (respirable dust)                                                                                                                                                                                                                                                                                                                                                          | Not established                                                             |
| <b>Exposure Limits/Guidelines (Con't.)</b>        |               |                                                           |                                                                                                             |                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                             |
|                                                   | <b>Result</b> | <b>Germany DFG</b>                                        | <b>Germany TRGS</b>                                                                                         | <b>Italy</b>                                                                                                                 | <b>NIOSH</b>                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>OSHA</b>                                                                 |
|                                                   | STELs         | Not established                                           | Not established                                                                                             | Not established                                                                                                              | Not established                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 ppm STEL (see 29 CFR 1910.1048)                                           |
|                                                   | TWAs          | Not established                                           | Not established                                                                                             | Not established                                                                                                              | 0.016 ppm TWA                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.75 ppm TWA                                                                |
|                                                   |               | 0.6 ppm Peak (no irritation should                        |                                                                                                             |                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                             |

|                                                         |          |                                                                                                              |                                                                                                                                                                                                                                                                                      |                                        |                                              |                         |
|---------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------|-------------------------|
| Formaldehyde (Gas State)<br>(50-00-0)                   | Ceilings | occur during mixed exposure); 0.74 mg/m <sup>3</sup> Peak (no irritation should occur during mixed exposure) | Not established                                                                                                                                                                                                                                                                      | Not established                        | 0.1 ppm Ceiling (15 min)                     | Not established         |
|                                                         | MAKs     | 0.3 ppm TWA MAK; 0.37 mg/m <sup>3</sup> TWA MAK (no irritation should occur during mixed exposure)           | Not established                                                                                                                                                                                                                                                                      | Not established                        | Not established                              | Not established         |
| Propionic acid<br>(79-09-4)                             | STELs    | Not established                                                                                              | Not established                                                                                                                                                                                                                                                                      | 20 ppm STEL; 62 mg/m <sup>3</sup> STEL | 15 ppm STEL; 45 mg/m <sup>3</sup> STEL       | Not established         |
|                                                         | TWAs     | Not established                                                                                              | 10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 31 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2) | 10 ppm TWA; 31 mg/m <sup>3</sup> TWA   | 10 ppm TWA; 30 mg/m <sup>3</sup> TWA         | Not established         |
|                                                         | Ceilings | 20 ppm Peak; 62 mg/m <sup>3</sup> Peak                                                                       | Not established                                                                                                                                                                                                                                                                      | Not established                        | Not established                              | Not established         |
|                                                         | MAKs     | 10 ppm TWA MAK; 31 mg/m <sup>3</sup> TWA MAK                                                                 | Not established                                                                                                                                                                                                                                                                      | Not established                        | Not established                              | Not established         |
| Quartz<br>(14808-60-7)                                  | TWAs     | Not established                                                                                              | Not established                                                                                                                                                                                                                                                                      | Not established                        | 0.05 mg/m <sup>3</sup> TWA (respirable dust) | Not established         |
| Disulfide, bis<br>(dimethylthiocarbamoyl)<br>(137-26-8) | TWAs     | Not established                                                                                              | 1 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)                                                                                                                  | Not established                        | 5 mg/m <sup>3</sup> TWA                      | 5 mg/m <sup>3</sup> TWA |
|                                                         | Ceilings | 2 mg/m <sup>3</sup> Peak (inhalable fraction)                                                                | Not established                                                                                                                                                                                                                                                                      | Not established                        | Not established                              | Not established         |
|                                                         | MAKs     | 1 mg/m <sup>3</sup> TWA MAK (inhalable fraction)                                                             | Not established                                                                                                                                                                                                                                                                      | Not established                        | Not established                              | Not established         |
| Silica, amorphous<br>(7631-86-9)                        | TWAs     | Not established                                                                                              | 4 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are                                                                                                                                                                   | Not established                        | 6 mg/m <sup>3</sup> TWA                      | Not established         |

|                          |          |                                             | observed, inhalable fraction) |                 |                                                                                                     |                                                                                  |
|--------------------------|----------|---------------------------------------------|-------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                          | MAKs     | 4 mg/m3 TWA MAK (inhalable fraction)        | Not established               | Not established | Not established                                                                                     | Not established                                                                  |
| Zinc oxide (1314-13-2)   | TWAs     | Not established                             | Not established               | Not established | 5 mg/m3 TWA (dust and fume)                                                                         | 5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) |
|                          | Ceilings | 1 mg/m3 Peak (respirable fraction, fume)    | Not established               | Not established | 15 mg/m3 Ceiling (dust)                                                                             | Not established                                                                  |
|                          | STELs    | Not established                             | Not established               | Not established | 10 mg/m3 STEL (fume)                                                                                | Not established                                                                  |
|                          | MAKs     | 1 mg/m3 TWA MAK (fume, respirable fraction) | Not established               | Not established | Not established                                                                                     | Not established                                                                  |
| Carbon Black (1333-86-4) | TWAs     | Not established                             | Not established               | Not established | 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH) | 3.5 mg/m3 TWA                                                                    |
| Limestone (1317-65-3)    | TWAs     | Not established                             | Not established               | Not established | 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)                                            | 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)                     |

## Exposure Control Notations

### Italy

•Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) (64742-52-5): **Carcinogens:** (Category 2 Carcinogen) | **Carcinogens:** (Category 3 Carcinogen) | **Mutagens:** (Category 3 Mutagen)

### France

•Formaldehyde (Gas State) (50-00-0): **Carcinogens:** (Carcinogen category 3)

### Germany DFG

•Carbon Black (1333-86-4): **Carcinogens:** (Category 3B (could be carcinogenic for man, inhalable fraction)) | **Carcinogens:** (Category 1 (causes cancer in man, alveola fraction)) | **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Sensitizers:** (skin sensitizer) | **Sensitizers:** (skin sensitizer) | **Sensitizers:** (skin sensitizer)

## 8.2 Exposure controls

### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

### Personal Protective Equipment

#### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

#### Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

#### Skin/Body

- Wear appropriate gloves.

### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not get in eyes or on skin or clothing.

### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Avoid release to the environment.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TWA EV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

| Material Description                |                      |                        |                                              |
|-------------------------------------|----------------------|------------------------|----------------------------------------------|
| Physical Form                       | Solid                | Appearance/Description | Black solid rubber with characteristic odor. |
| Color                               | Black                | Odor                   | Characteristic                               |
| Odor Threshold                      | Data lacking         |                        |                                              |
| General Properties                  |                      |                        |                                              |
| Boiling Point                       | Data lacking         | Melting Point          | Data lacking                                 |
| Decomposition Temperature           | Data lacking         | pH                     | Data lacking                                 |
| Specific Gravity/Relative Density   | 1.18 to 1.24 Water=1 | Water Solubility       | Data lacking                                 |
| Viscosity                           | Data lacking         | Explosive Properties   | Not Explosive.                               |
| Oxidizing Properties:               | Not an Oxidizer.     |                        |                                              |
| Volatility                          |                      |                        |                                              |
| Vapor Pressure                      | Data lacking         | Vapor Density          | Data lacking                                 |
| Evaporation Rate                    | Data lacking         |                        |                                              |
| Flammability                        |                      |                        |                                              |
| Flash Point                         | Data lacking         | UEL                    | Data lacking                                 |
| LEL                                 | Data lacking         | Autoignition           | Data lacking                                 |
| Flammability (solid, gas)           | Not Flammable.       |                        |                                              |
| Environmental                       |                      |                        |                                              |
| Octanol/Water Partition coefficient | Data lacking         |                        |                                              |

### 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

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- No data available.

### 10.5 Incompatible materials

- None known.

### 10.6 Hazardous decomposition products

- Carbon Monoxide, Carbon Dioxide, Smoke, Aliphatics, Aromatics, Sulfur Oxides.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Component Name                                                                    | CAS        | Data                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Styrene polymer with 1,3-butadiene (Kraton) (3% TO 7%)                            | 9003-55-8  | Irritation: eye-rbt 500 mg/24H MLD                                                                                                                                                   |
| Fatty acids, tall oil (0.1% TO 1%)                                                | 61790-12-3 | Acute Toxicity: orl-rat LD50:>10000 mg/kg                                                                                                                                            |
| Rosin (0.1% TO 1%)                                                                | 8050-09-7  | Acute Toxicity: orl-rat LD50:3.0 mg/kg; ihl-rat LC50:110 mg/m3                                                                                                                       |
| Carbon Black (10% TO 30%)                                                         | 1333-86-4  | Acute Toxicity: orl-rat LD50:>15400 mg/kg; skn-rbt LD50:>3 gm/kg;<br>Tumorigen/Carcinogen: ihl-rat TCLo:11600 ug/m3/18H/2Y-I                                                         |
| Quartz (0% TO 1%)                                                                 | 14808-60-7 | Tumorigen/Carcinogen: ihl-rat TCLo:50 mg/m3/6H/71W-I                                                                                                                                 |
| Phenol, p-(1,1,3,3-tetramethylbutyl)- (0% TO 1%)                                  | 140-66-9   | Acute Toxicity: orl-rat LD50:4600 mg/kg; skn-rbt LD50:1880 mg/kg;<br>Irritation: eye-rbt 50 ug/24H SEV; skn-rbt 20 mg/24H MOD;<br>Reproductive: orl-rat TDLo:250.4 mg/kg (0-8D preg) |
| Stearic acid (0.1% TO 1%)                                                         | 57-11-4    | Acute Toxicity: orl-rat LD50:4600 mg/kg; skn-rbt LD50:>5 gm/kg;<br>Irritation: skn-rbt 500 mg/24H MOD                                                                                |
| Zinc oxide (1% TO 5%)                                                             | 1314-13-2  | Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD;<br>Reproductive: orl-rat TDLo:6846 mg/kg (1-22D preg)                                                                    |
| Propionic acid (0% TO 1%)                                                         | 79-09-4    | Acute Toxicity: orl-rat LD50:2600 mg/kg; skn-rbt LD50:500 uL/kg;<br>Irritation: eye-rbt 990 ug SEV; skn-rbt 495 mg open SEV                                                          |
| Silica, amorphous (0.1% TO 1%)                                                    | 7631-86-9  | Irritation: eye-rbt 25 mg/24H MLD                                                                                                                                                    |
| Sulfur (0.1% TO 1%)                                                               | 7704-34-9  | Irritation: eye-hmn 8 ppm                                                                                                                                                            |
| Benzothiazole, 2,2'-dithiobis- (0.1% TO 1%)                                       | 120-78-5   | Acute Toxicity: orl-rat LD50:>12 gm/kg; skn-rbt LD50:>7940 mg/kg                                                                                                                     |
| Disulfide, bis(dimethylthiocarbamoyl) (0.1% TO 1%)                                | 137-26-8   | Acute Toxicity: orl-rat LD50:560 mg/kg; ihl-rat LC50:500 mg/m3/4H;<br>Irritation: eye-rbt 100 mg/24H MOD;<br>Reproductive: orl-rat TDLo:125 mg/kg (6-10D preg)                       |
| Guanidine, 1,3-diphenyl- (0.1% TO 1%)                                             | 102-06-7   | Acute Toxicity: orl-rat LD50:323 mg/kg; skn-rbt LD50:>794 mg/kg;<br>Reproductive: orl-mus TDLo:76 mg/kg (1-19D preg)                                                                 |
| Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) (1% TO 5%) | 64742-52-5 | Irritation: skn-rbt 500 mg SEV                                                                                                                                                       |

| GHS Properties    | Classification                                                                              |
|-------------------|---------------------------------------------------------------------------------------------|
| Acute toxicity    | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Carcinogenicity   | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |

|                                      |                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Germ Cell Mutagenicity</b>        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Skin corrosion/Irritation</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Skin sensitization</b>            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Skin Sensitizer 1               |
| <b>STOT-RE</b>                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>STOT-SE</b>                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Toxicity for Reproduction</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Toxic to Reproduction 2         |
| <b>Respiratory sensitization</b>     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| <b>Serious eye damage/Irritation</b> | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |

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

- Inhalation, Skin, Eye

**Potential Health Effects****Inhalation****Acute (Immediate)**

- No adverse effects likely for general handling at room temperature. Hot processing (e.g. milling, extrusion, curing, etc.) can release fumes and other volatiles which may cause irritation.

**Chronic (Delayed)**

- Long term exposure to concentrated hot processing fumes has caused lung function loss and chronic bronchitis.

**Skin****Acute (Immediate)**

- May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)**

- No data available.

**Eye****Acute (Immediate)**

- No adverse effects likely for general handling at room temperature. Hot processing (e.g. milling, extrusion, curing, etc.) can release fumes and other volatiles which may cause irritation.

**Chronic (Delayed)**

- No data available.

**Ingestion****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**

- No data available.

**Carcinogenic Effects**

- The CB4REACH Consortium has concluded that carbon black is classified as not carcinogenic. This classification is currently under review. 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." The quartz and titanium dioxide components are also encapsulated in the rubber therefore no significant exposure to either of these components is expected.

| <b>Carcinogenic Effects</b> |            |                                   |                              |                        |
|-----------------------------|------------|-----------------------------------|------------------------------|------------------------|
|                             | <b>CAS</b> | <b>OSHA</b>                       | <b>IARC</b>                  | <b>NTP</b>             |
| Formaldehyde (Gas State)    | 50-00-0    | Specifically Regulated Carcinogen | Group 1-Carcinogenic         | Known Human Carcinogen |
| Quartz                      | 14808-60-7 | Not Listed                        | Group 1-Carcinogenic         | Known Human Carcinogen |
| Carbon Black                | 1333-86-4  | Not Listed                        | Group 2B-Possible Carcinogen | Not Listed             |

**Reproductive Effects**

- Tests in animals have shown that some components of this material have reproductive effects.

**Key to abbreviations**

LD = Lethal Dose      SEV = Severe  
 MLD = Mild          TC = Toxic Concentration  
 MOD = Moderate      TD = Toxic Dose

**Section 12 - Ecological Information****12.1 Toxicity**

- No data available

**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**

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | NDA            | Not Regulated                | NDA                             | NDA                | NDA                        |
| TDG       | NDA            | Not Regulated                | NDA                             | NDA                | NDA                        |
| IMO/IMDG  | NDA            | Not Regulated                | NDA                             | NDA                | NDA                        |
| IATA/ICAO | NDA            | Not Regulated                | NDA                             | NDA                | NDA                        |

**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

| State Right To Know                                                    |            |     |     |     |
|------------------------------------------------------------------------|------------|-----|-----|-----|
| Component                                                              | CAS        | MA  | NJ  | PA  |
| 1,3-Butadiene, 2-methyl-, oligomer                                     | 9003-31-0  | No  | No  | No  |
| Styrene polymer with 1,3-butadiene (Kraton)                            | 9003-55-8  | No  | No  | No  |
| Fatty acids, tall oil                                                  | 61790-12-3 | No  | No  | No  |
| Rosin                                                                  | 8050-09-7  | No  | No  | No  |
| Carbon Black                                                           | 1333-86-4  | Yes | Yes | Yes |
| Limestone                                                              | 1317-65-3  | Yes | Yes | Yes |
| Quartz                                                                 | 14808-60-7 | Yes | Yes | Yes |
| Phenol, p-(1,1,3,3-tetramethylbutyl)-                                  | 140-66-9   | No  | No  | No  |
| Formaldehyde (Gas State)                                               | 50-00-0    | Yes | Yes | Yes |
| Stearic acid                                                           | 57-11-4    | No  | No  | No  |
| Zinc oxide                                                             | 1314-13-2  | Yes | Yes | Yes |
| Propionic acid                                                         | 79-09-4    | Yes | Yes | Yes |
| Amylphenol disulfide polymer                                           | 68555-98-6 | No  | No  | No  |
| Silica, amorphous                                                      | 7631-86-9  | Yes | Yes | Yes |
| Water                                                                  | 7732-18-5  | No  | No  | No  |
| Sulfur                                                                 | 7704-34-9  | Yes | Yes | Yes |
| Benzothiazole, 2,2'-dithiobis-                                         | 120-78-5   | No  | No  | No  |
| White mineral oil                                                      | 8042-47-5  | No  | No  | No  |
| Disulfide, bis (dimethylthiocarbamoyl)                                 | 137-26-8   | Yes | Yes | Yes |
| Guanidine, 1,3-diphenyl-                                               | 102-06-7   | No  | No  | No  |
| Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | 64742-52-5 | No  | No  | No  |

| Inventory                                   |           |            |             |       |           |           |
|---------------------------------------------|-----------|------------|-------------|-------|-----------|-----------|
| Component                                   | CAS       | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| 1,3-Butadiene, 2-methyl-, oligomer          | 9003-31-0 | Yes        | No          | Yes   | No        | No        |
| Styrene polymer with 1,3-butadiene (Kraton) | 9003-55-8 | Yes        | No          | Yes   | No        | No        |

|                                                                        |            |     |     |     |     |     |
|------------------------------------------------------------------------|------------|-----|-----|-----|-----|-----|
| Fatty acids, tall oil                                                  | 61790-12-3 | Yes | No  | Yes | Yes | No  |
| Rosin                                                                  | 8050-09-7  | Yes | No  | Yes | Yes | No  |
| Carbon Black                                                           | 1333-86-4  | Yes | No  | Yes | Yes | Yes |
| Limestone                                                              | 1317-65-3  | No  | Yes | Yes | Yes | No  |
| Quartz                                                                 | 14808-60-7 | Yes | No  | Yes | Yes | No  |
| Phenol, p-(1,1,3,3-tetramethylbutyl)-                                  | 140-66-9   | Yes | No  | Yes | Yes | No  |
| Formaldehyde (Gas State)                                               | 50-00-0    | Yes | No  | Yes | Yes | No  |
| Stearic acid                                                           | 57-11-4    | Yes | No  | Yes | Yes | No  |
| Zinc oxide                                                             | 1314-13-2  | Yes | No  | Yes | Yes | No  |
| Propionic acid                                                         | 79-09-4    | Yes | No  | Yes | Yes | No  |
| Amylphenol disulfide polymer                                           | 68555-98-6 | Yes | No  | Yes | No  | No  |
| Silica, amorphous                                                      | 7631-86-9  | Yes | No  | Yes | Yes | No  |
| Water                                                                  | 7732-18-5  | Yes | No  | Yes | Yes | No  |
| Sulfur                                                                 | 7704-34-9  | Yes | No  | Yes | Yes | No  |
| Benzothiazole, 2,2'-dithiobis-                                         | 120-78-5   | Yes | No  | Yes | Yes | No  |
| White mineral oil                                                      | 8042-47-5  | Yes | No  | Yes | Yes | No  |
| Disulfide, bis (dimethylthiocarbamoyl)                                 | 137-26-8   | Yes | No  | Yes | Yes | No  |
| Guanidine, 1,3-diphenyl-                                               | 102-06-7   | Yes | No  | Yes | Yes | No  |
| Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | 64742-52-5 | Yes | No  | Yes | Yes | No  |

## Inventory (Con't.)

| Component                                   | CAS        | Japan ENCS | Korea KECL | TSCA |
|---------------------------------------------|------------|------------|------------|------|
| 1,3-Butadiene, 2-methyl-, oligomer          | 9003-31-0  | Yes        | Yes        | Yes  |
| Styrene polymer with 1,3-butadiene (Kraton) | 9003-55-8  | Yes        | Yes        | Yes  |
| Fatty acids, tall oil                       | 61790-12-3 | Yes        | Yes        | Yes  |
| Rosin                                       | 8050-09-7  | Yes        | Yes        | Yes  |
| Carbon Black                                | 1333-86-4  | Yes        | Yes        | Yes  |
| Limestone                                   | 1317-65-3  | Yes        | Yes        | Yes  |
| Quartz                                      | 14808-60-7 | Yes        | Yes        | Yes  |
| Phenol, p-(1,1,3,3-tetramethylbutyl)-       | 140-66-9   | Yes        | Yes        | Yes  |
| Formaldehyde (Gas State)                    | 50-00-0    | Yes        | Yes        | Yes  |
| Stearic acid                                | 57-11-4    | Yes        | Yes        | Yes  |
| Zinc oxide                                  | 1314-13-2  | Yes        | Yes        | Yes  |
| Propionic acid                              | 79-09-4    | Yes        | Yes        | Yes  |

|                                                                        |            |     |     |     |
|------------------------------------------------------------------------|------------|-----|-----|-----|
| Amylphenol disulfide polymer                                           | 68555-98-6 | Yes | Yes | Yes |
| Silica, amorphous                                                      | 7631-86-9  | Yes | Yes | Yes |
| Water                                                                  | 7732-18-5  | No  | Yes | Yes |
| Sulfur                                                                 | 7704-34-9  | No  | Yes | Yes |
| Benzothiazole, 2,2'-dithiobis-                                         | 120-78-5   | Yes | Yes | Yes |
| White mineral oil                                                      | 8042-47-5  | Yes | Yes | Yes |
| Disulfide, bis (dimethylthiocarbamoyl)                                 | 137-26-8   | Yes | Yes | Yes |
| Guanidine, 1,3-diphenyl-                                               | 102-06-7   | Yes | Yes | Yes |
| Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | 64742-52-5 | Yes | Yes | Yes |

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

|                                                                                                                                                         |            |                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed                                                                                                                                                                                                     |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                                                                                                                                                                                     |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed                                                                                                                                                                                                     |
| • Propionic acid                                                                                                                                        | 79-09-4    | B3, D1B, E                                                                                                                                                                                                     |
| • Rosin                                                                                                                                                 | 8050-09-7  | D2A                                                                                                                                                                                                            |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed                                                                                                                                                                                                     |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                                                                                                                                                                                     |
| • Carbon Black                                                                                                                                          | 1333-86-4  | 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 Division website.)      |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                                                                                                                                                                                     |
| • Limestone                                                                                                                                             | 1317-65-3  | D2A                                                                                                                                                                                                            |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Sulfur                                                                                                                                                | 7704-34-9  | B4                                                                                                                                                                                                             |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                                                                                                                                                                                                     |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Quartz                                                                                                                                                | 14808-60-7 | D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.) |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                                                                                                                                                                                     |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Uncontrolled product according to WHMIS classification criteria                                                                                                                                                |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | A, B1, D1A, D2A, D2B; B3, D1A, D2A, D2B, E (regulated under Formol)                                                                                                                                            |

**Canada - WHMIS - Ingredient Disclosure List**

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | 1 %        |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | 1 %        |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | 1 %        |
| • Propionic acid                                                                                                                                        | 79-09-4    | 1 %        |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | 1 %        |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | 1 %        |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | 1 %        |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | 1 %        |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | 0.1 %      |

**Environment****Canada - CEPA - Priority Substances List**

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |

|                                         |            |                                                           |
|-----------------------------------------|------------|-----------------------------------------------------------|
| • Limestone                             | 1317-65-3  | Not Listed                                                |
| • White mineral oil                     | 8042-47-5  | Not Listed                                                |
| • White mineral oil                     | 8042-47-5  | Not Listed                                                |
| • Silica, amorphous                     | 7631-86-9  | Not Listed                                                |
| • Sulfur                                | 7704-34-9  | Not Listed                                                |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed                                                |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed                                                |
| • Quartz                                | 14808-60-7 | Not Listed                                                |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed                                                |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed                                                |
| • Formaldehyde (Gas State)              | 50-00-0    | Priority Substance List 2<br>(substance considered toxic) |

## Europe

### Other

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

|                                                                                                                                                         |            |                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                                      |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | R31 R43 N; R50-53                               |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                                      |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                      |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Xn; R20/22-48/22 Xi; R36/38<br>R43 N; R50-53    |
| • Propionic acid                                                                                                                                        | 79-09-4    | C; R34                                          |
| • Rosin                                                                                                                                                 | 8050-09-7  | R43                                             |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Carc.Cat.2; R45                                 |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                      |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                                      |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | N; R50-53                                       |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                      |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                      |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                      |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                      |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                      |
| • Sulfur                                                                                                                                                | 7704-34-9  | Xi; R38                                         |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Xn; R22 Xi; R36/37/38 N; R51-53 Repr.Cat.3; R62 |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                      |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed                                      |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                      |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Xi; R38-41 N; R50-53                            |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | T; R23/24/25 C; R34 Carc.Cat.3;<br>R40 R43      |

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

|                                                                          |            |                                                                        |
|--------------------------------------------------------------------------|------------|------------------------------------------------------------------------|
| • Stearic acid                                                           | 57-11-4    | Not Listed                                                             |
| • Benzothiazole, 2,2'-dithiobis-                                         | 120-78-5   | Not Listed                                                             |
| • Styrene polymer with 1,3-butadiene (Kraton)                            | 9003-55-8  | Not Listed                                                             |
| • 1,3-Butadiene, 2-methyl-, oligomer                                     | 9003-31-0  | Not Listed                                                             |
| • Disulfide, bis(dimethylthiocarbamoyl)                                  | 137-26-8   | 2.5%≤C: N; R:50-53 0.25%≤C<2.5%: N; R:51-53<br>0.025%≤C<0.25%: R:52-53 |
| • Propionic acid                                                         | 79-09-4    | 10%≤C<25%: Xi; R:36/37/38 25%≤C: C; R:34                               |
| • Rosin                                                                  | 8050-09-7  | Not Listed                                                             |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | 64742-52-5 | Not Listed                                                             |

|                                                                                                                                                         |            |                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                                                                                                                                                           |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                                                                                                                                                                           |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed                                                                                                                                                                           |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                                                                                                                                                           |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                                                                                                                                                           |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                                                                                                                           |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                                                                                                                           |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                                                                                                                                                           |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed                                                                                                                                                                           |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                                                                                                                                                                           |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                                                                                                                                                           |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed                                                                                                                                                                           |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                                                                                                                                                           |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | 2.5%≤C: N; R:50-53 0.25%≤C<2.5%: N; R:51-53<br>0.025%≤C<0.25%: R:52-53<br>0.2%≤C: R:43 25%≤C: T; R:23/24/25 5%<br>≤C<25%: Xn; R:20/21/22 25%≤C: C; R:34 5%<br>≤C<25%: Xi; R:36/37/38 |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    |                                                                                                                                                                                      |

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

|                                                                                                                                                         |            |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                                                |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Xi N R:31-43-50/53 S:(2)-36/37-60-61                      |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                                                |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                                |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Xn N R:20/22-36/38-43-48/22-50/53<br>S:(2)-26-36/37-60-61 |
| • Propionic acid                                                                                                                                        | 79-09-4    | C R:34 S:(1/2)-23-36-45                                   |
| • Rosin                                                                                                                                                 | 8050-09-7  | Xi R:43 S:(2)-24-37                                       |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | T R:45 S:53-45                                            |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                                |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                                                |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | N R:50/53 S:60-61                                         |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                                |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                                |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                                |
| • Sulfur                                                                                                                                                | 7704-34-9  | Xi R:38 S:(2)-46                                          |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Xn N R:22-36/37/38-51/53-62 S:(2)-26-36/37/39-61          |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                                |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed                                                |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                                |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Xi N R:38-41-50/53 S:(2)-26-37/39-60-61                   |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | T R:23/24/25-34-40-43 S:(1/2)-26-36/37/39-45-51           |

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

|                |         |            |
|----------------|---------|------------|
| • Stearic acid | 57-11-4 | Not Listed |
|----------------|---------|------------|

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | B          |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | L          |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | B, D       |

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

|                                                                                                                                                         |            |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed           |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | S:(2)-36/37-60-61    |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed           |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed           |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | S:(2)-26-36/37-60-61 |
| • Propionic acid                                                                                                                                        | 79-09-4    | S:(1/2)-23-36-45     |
| • Rosin                                                                                                                                                 | 8050-09-7  | S:(2)-24-37          |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | S:53-45              |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed           |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed           |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | S:60-61              |

|                                         |            |                           |
|-----------------------------------------|------------|---------------------------|
| • Zinc oxide as Zinc compounds          |            | Not Listed                |
| • Limestone                             | 1317-65-3  | Not Listed                |
| • White mineral oil                     | 8042-47-5  | Not Listed                |
| • White mineral oil                     | 8042-47-5  | Not Listed                |
| • Silica, amorphous                     | 7631-86-9  | Not Listed                |
| • Sulfur                                | 7704-34-9  | S:(2)-46                  |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | S:(2)-26-36/37/39-61      |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed                |
| • Quartz                                | 14808-60-7 | Not Listed                |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed                |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | S:(2)-26-37/39-60-61      |
| • Formaldehyde (Gas State)              | 50-00-0    | S:(1/2)-26-36/37/39-45-51 |

## United States

### Labor

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

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |

|                                         |            |            |
|-----------------------------------------|------------|------------|
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed |
| • Quartz                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)              | 50-00-0    | 1000 lb TQ |

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

|                                                                                                                                                         |            |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                                                                                                                  |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed                                                                                                                  |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                                                                                                                  |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                                                                                                  |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed                                                                                                                  |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed                                                                                                                  |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed                                                                                                                  |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed                                                                                                                  |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                                                                                                  |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                                                                                                                  |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed                                                                                                                  |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                                                                                                  |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                                                                                                  |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                                                                  |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                                                                  |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                                                                                                  |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed                                                                                                                  |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                                                                                                                  |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                                                                                                  |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed                                                                                                                  |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                                                                                                  |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed                                                                                                                  |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | 2 ppm STEL (See 29 CFR 1910.1048, 15 min); 0.5 ppm Action Level (See 29 CFR 1910.1048); 0.75 ppm TWA (See 29 CFR 1910.1048) |

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

|                                               |           |            |
|-----------------------------------------------|-----------|------------|
| • Stearic acid                                | 57-11-4   | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-              | 120-78-5  | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton) | 9003-55-8 | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer          | 9003-31-0 | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)       | 137-26-8  | Not Listed |
| • Propionic acid                              | 79-09-4   | Not Listed |

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |

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

|                                                                                                                                                         |            |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                         |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed                         |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                         |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                         |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | 10 lb final RQ; 4.54 kg final RQ   |
| • Propionic acid                                                                                                                                        | 79-09-4    | 5000 lb final RQ; 2270 kg final RQ |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed                         |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed                         |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                         |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                         |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed                         |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                         |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                         |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                         |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                         |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                         |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed                         |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                         |

|                                         |            |                                   |
|-----------------------------------------|------------|-----------------------------------|
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed                        |
| • Quartz                                | 14808-60-7 | Not Listed                        |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed                        |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed                        |
| • Formaldehyde (Gas State)              | 50-00-0    | 100 lb final RQ; 45.4 kg final RQ |

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

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |

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

|                |         |            |
|----------------|---------|------------|
| • Stearic acid | 57-11-4 | Not Listed |
|----------------|---------|------------|

|                                                                                                                                                         |            |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed         |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed         |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed         |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed         |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed         |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed         |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed         |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed         |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed         |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed         |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed         |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed         |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed         |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed         |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed         |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed         |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed         |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed         |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed         |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed         |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed         |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | 100 lb EPCRA<br>RQ |

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

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |

|                                         |            |            |
|-----------------------------------------|------------|------------|
| • Silica, amorphous                     | 7631-86-9  | Not Listed |
| • Sulfur                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed |
| • Quartz                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)              | 50-00-0    | 500 lb TPQ |

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

|                                                                                                                                                         |            |                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                                              |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed                                              |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                                              |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                              |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | 1.0 % de minimis concentration                          |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed                                              |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed                                              |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed                                              |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                              |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed                                              |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed                                              |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | 1.0 % de minimis concentration (Chemical Category N982) |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                              |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                              |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                              |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                              |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed                                              |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                                              |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                              |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed                                              |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                              |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed                                              |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | 0.1 % de minimis concentration                          |

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

|                                               |           |            |
|-----------------------------------------------|-----------|------------|
| • Stearic acid                                | 57-11-4   | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-              | 120-78-5  | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton) | 9003-55-8 | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer          | 9003-31-0 | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)       | 137-26-8  | Not Listed |

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |

|                                         |            |                                                               |
|-----------------------------------------|------------|---------------------------------------------------------------|
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed                                                    |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed                                                    |
| • Quartz                                | 14808-60-7 | Not Listed                                                    |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed                                                    |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed                                                    |
| • Formaldehyde (Gas State)              | 50-00-0    | Included in waste streams: K009, K010, K038, K040, K156, K157 |

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

|                                                                                                                                                         |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed        |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed        |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed        |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed        |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | waste number U244 |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed        |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed        |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed        |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed        |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed        |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed        |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed        |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed        |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed        |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed        |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed        |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed        |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed        |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | waste number U122 |

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

|                                                                                                                                                         |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed        |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed        |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed        |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed        |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | waste number U244 |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed        |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed        |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed        |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed        |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed        |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed        |

|                                         |            |                      |
|-----------------------------------------|------------|----------------------|
| • Silica, amorphous                     | 7631-86-9  | Not Listed           |
| • Sulfur                                | 7704-34-9  | Not Listed           |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed           |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed           |
| • Quartz                                | 14808-60-7 | Not Listed           |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed           |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed           |
| • Formaldehyde (Gas State)              | 50-00-0    | waste number<br>U122 |

## United States - California

### Environment

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

|                                                                                                                                                         |            |                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed                                                                        |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed                                                                        |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed                                                                        |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed                                                                        |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed                                                                        |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed                                                                        |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed                                                                        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed                                                                        |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed                                                                        |
| • Carbon Black                                                                                                                                          | 1333-86-4  | carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size) |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed                                                                        |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed                                                                        |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed                                                                        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                        |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed                                                                        |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed                                                                        |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed                                                                        |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed                                                                        |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed                                                                        |
| • Quartz                                                                                                                                                | 14808-60-7 | carcinogen, initial date 10/1/88 (airborne particles of respirable size)          |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed                                                                        |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed                                                                        |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | carcinogen, initial date 1/1/88 (gas)                                             |

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

|                                               |           |            |
|-----------------------------------------------|-----------|------------|
| • Stearic acid                                | 57-11-4   | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-              | 120-78-5  | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton) | 9003-55-8 | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer          | 9003-31-0 | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)       | 137-26-8  | Not Listed |
| • Propionic acid                              | 79-09-4   | Not Listed |

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |

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

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |

|                                         |            |            |
|-----------------------------------------|------------|------------|
| • Zinc oxide                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds          |            | Not Listed |
| • Limestone                             | 1317-65-3  | Not Listed |
| • White mineral oil                     | 8042-47-5  | Not Listed |
| • White mineral oil                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                     | 7631-86-9  | Not Listed |
| • Sulfur                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed |
| • Quartz                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)              | 50-00-0    | Not Listed |

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

|                                                                                                                                                         |            |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed           |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed           |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed           |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed           |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed           |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed           |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed           |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed           |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed           |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed           |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed           |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed           |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed           |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed           |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed           |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed           |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed           |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed           |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed           |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed           |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed           |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed           |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | 40 µg/day NSRL (gas) |

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

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |
| <b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>                                                                                |            |            |
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    | Not Listed |

## United States - Pennsylvania

### Labor

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

|                                                                          |            |            |
|--------------------------------------------------------------------------|------------|------------|
| • Stearic acid                                                           | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                         | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                            | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                     | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                  | 137-26-8   |            |
| • Propionic acid                                                         | 79-09-4    |            |
| • Rosin                                                                  | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) | 64742-52-5 | Not Listed |

|                                                                                                                                                         |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | (fume)     |
| • Zinc oxide as Zinc compounds                                                                                                                          |            |            |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                                                                                                                                     | 7631-86-9  | Not Listed |
| • Sulfur                                                                                                                                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-                                                                                                                              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                                                                                                                                 | 61790-12-3 | Not Listed |
| • Quartz                                                                                                                                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer                                                                                                                          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)-                                                                                                                 | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)                                                                                                                              | 50-00-0    |            |
| <b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b>                                                                         |            |            |
| • Stearic acid                                                                                                                                          | 57-11-4    | Not Listed |
| • Benzothiazole, 2,2'-dithiobis-                                                                                                                        | 120-78-5   | Not Listed |
| • Styrene polymer with 1,3-butadiene (Kraton)                                                                                                           | 9003-55-8  | Not Listed |
| • 1,3-Butadiene, 2-methyl-, oligomer                                                                                                                    | 9003-31-0  | Not Listed |
| • Disulfide, bis(dimethylthiocarbamoyl)                                                                                                                 | 137-26-8   | Not Listed |
| • Propionic acid                                                                                                                                        | 79-09-4    | Not Listed |
| • Rosin                                                                                                                                                 | 8050-09-7  | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)                                                                                | 64742-52-5 | Not Listed |
| • Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) as Oil mist, mineral, sum total of 15 polynuclear aromatic hydrocarbons (PAHs) |            | Not Listed |
| • Carbon Black                                                                                                                                          | 1333-86-4  | Not Listed |
| • Zinc oxide                                                                                                                                            | 1314-13-2  | Not Listed |
| • Zinc oxide as Zinc compounds                                                                                                                          |            | Not Listed |
| • Limestone                                                                                                                                             | 1317-65-3  | Not Listed |
| • White mineral oil                                                                                                                                     | 8042-47-5  | Not Listed |

|                                         |            |            |
|-----------------------------------------|------------|------------|
| • White mineral oil                     | 8042-47-5  | Not Listed |
| • Silica, amorphous                     | 7631-86-9  | Not Listed |
| • Sulfur                                | 7704-34-9  | Not Listed |
| • Guanidine, 1,3-diphenyl-              | 102-06-7   | Not Listed |
| • Fatty acids, tall oil                 | 61790-12-3 | Not Listed |
| • Quartz                                | 14808-60-7 | Not Listed |
| • Amylphenol disulfide polymer          | 68555-98-6 | Not Listed |
| • Phenol, p-(1,1,3,3-tetramethylbutyl)- | 140-66-9   | Not Listed |
| • Formaldehyde (Gas State)              | 50-00-0    | 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 cancer.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H350 - May cause cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- R22 - Harmful if swallowed.
- R31 - Contact with acids liberates toxic gas.
- R34 - Causes burns.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R36/38 - Irritating to eyes and skin.
- R40 - Limited evidence of a carcinogenic effect.
- R41 - Risk of serious damage to eyes.
- R43 - May cause sensitisation by skin contact.
- R45 - May cause cancer.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R62 - Possible risk of impaired fertility.

**Last Revision Date**

- 17/October/2013

**Preparation Date**

- 17/October/2013

**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

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