Safety Data Sheet

VULCATEK

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

1.1 Product identifier

Product Name • TIRE PATCH (Chemical Cure, Dual Cure, Heat Cure)
Product Code • Various

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

Relevant identified use(s) • Radial patches for tire repair; Bias patches for tire repair; Tube patches for tire tube repair; Universal patches for tire repair; Pilot wire patch plugs for 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 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Not classified
DSD/DPD • Not classified

2.2 Label Elements

CLP

Preparation Date: 16/August/2012
Revision Date: 30/April/2013
Hazard statements • No label element(s) required

Risk phrases • No label element(s) required

2.3 Other Hazards
CLP • This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.
DSD/DPD • Under European Directive 1999/45/EC these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.

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

2.1 Classification of the substance or mixture
OSHA HCS 2012 • Not classified

2.2 Label elements
OSHA HCS 2012

Hazard statements • No label elements(s) required

2.3 Other hazards
OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard) this product is exempt as an article under stated normal conditions of use.

Canada
According to WHMIS

2.1 Classification of the substance or mixture
WHMIS • Not classified

2.2 Label elements
WHMIS • No label element(s) required

2.3 Other hazards
WHMIS • Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.

2.4 Other information

See Section 12 for Ecological information.

Section 3 - Composition/Information on Ingredients

3.1 Substances
Preparation Date: 18/August/2012
Revision Date: 30/April/2013
3.2 Mixtures

Hazardous ingredients are encapsulated in rubber matrix and are not airborne or of respirable size therefore will not be released or otherwise result in exposure to hazardous chemicals under normal conditions of use.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

Eye
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

Ingestion
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

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

4.3 Indication of any immediate medical attention and special treatment needed

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

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Water, foam, dry chemical, carbon dioxide (CO2).

Unsuitable Extinguishing Media
- No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Material is non-combustible and is not expected to pose a fire or explosion hazard.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters
- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Structural firefighters' protective clothing will only provide limited protection.
Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Emergency Procedures
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as as recommended. Use normal clean up procedures.

6.2 Environmental precautions
- No special precautions necessary.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Pick up pieces and place in container or bag for disposal.

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

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Store in a cool, dry, well-ventilated place.

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

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>France</th>
<th>Germany DFG</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>10 mg/m³ STEL (respirable fraction)</td>
<td>10 mg/m³ STEL (respirable)</td>
<td>10 mg/m³ STEV (fume)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>2 mg/m³ TWA (respirable fraction)</td>
<td>2 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWAED (containing no Asbestos and &lt;1% Crystalline silica, total dust); 5 mg/m³ TWA (fume)</td>
<td>5 mg/m³ TWA [VME] (fume); 10 mg/m³ TWA [VME] (dust)</td>
<td>Not established</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1 mg/m³ Peak (respirable fraction, fume)</td>
</tr>
<tr>
<td>MAKs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1 mg/m³ TWA MAK (fume, respirable fraction)</td>
</tr>
<tr>
<td>Carbon Black (1333-86-4)</td>
<td>TWAs</td>
<td>3 mg/m³ TWA (inhalable fraction)</td>
<td>3.5 mg/m³ TWA</td>
<td>3.5 mg/m³ TWAED</td>
<td>3.5 mg/m³ TWA [VME]</td>
</tr>
</tbody>
</table>
### Exposure Limits/Guidelines (Cont.)

<table>
<thead>
<tr>
<th>Result</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide (1314-13-2)</td>
<td>TWAs: 6 mg/m³ TWA (dust and fume)</td>
<td>5 mg/m³ TWA (fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
</tr>
<tr>
<td>Ceilings</td>
<td>15 mg/m³ Ceiling (dust)</td>
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</tr>
<tr>
<td>STELs</td>
<td>10 mg/m³ STEL (fume)</td>
<td>Not established</td>
</tr>
<tr>
<td>Carbon Black (1333-86-4)</td>
<td>TWAs: 3.5 mg/m³ TWA; 0.1 mg/m³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)</td>
<td>3.5 mg/m³ TWA</td>
</tr>
</tbody>
</table>

### Exposure Control Notations

- **Germany DFG**
  - Carbon Black (1333-86-4): Carcinogens: (Category 3B could be carcinogenic for man, inhalable fraction)

### 8.2 Exposure controls

#### Engineering Measures/Controls
- Under normal conditions of use, special ventilation is not required.

#### Personal Protective Equipment

- **Respiratory**
  - No respiratory protection is required under normal conditions of use.
- **Eye/Face**
  - Under normal conditions of use, eye protection is not required.
- **Skin/Body**
  - No skin protection is ordinarily required under normal conditions of use.
- Follow best practice for site management and disposal of waste.

#### Key to abbreviations

- STEL = Short Term Exposure Limits are based on 15-minute exposures
- STEV = Short Term Exposure Value
- TWA = Time-Weighted Average Exposure Value
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

- ACGIH = American Conference of Governmental Industrial Hygiene
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Solid</th>
<th>Appearance/Description</th>
<th>Black solid rubber with characteristic odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
<td>Odor</td>
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<td></td>
</tr>
<tr>
<td>Taste</td>
<td>Data lacking</td>
<td>Particulate Type</td>
<td>Not relevant</td>
<td></td>
</tr>
<tr>
<td>Particulate Size</td>
<td>Not relevant</td>
<td>Aerosol Type</td>
<td>Not relevant</td>
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<td>Odor Threshold</td>
<td>Data lacking</td>
<td>Physical and Chemical Properties</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

- **General Properties**
  - Boiling Point: Data lacking
  - Melting Point: Data lacking
  - Decomposition Temperature: Data lacking
  - Heat of Decomposition: Data lacking
  - pH: Not relevant
  - Specific Gravity/Relative Density: > 1 Water=1
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Density</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Viscosity</td>
<td>Data lacking</td>
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<td>Oxidizing Properties</td>
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<td><strong>Vapor Pressure</strong></td>
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<tr>
<td><strong>Vapor Density</strong></td>
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<tr>
<td>Evaporation Rate</td>
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<td><strong>VOC (Vol.)</strong></td>
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</tr>
<tr>
<td><strong>Volatiles (Vol.)</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Flash Point</strong></td>
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<tr>
<td><strong>UEL</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>LEL</strong></td>
<td>Not relevant</td>
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<td><strong>Autoignition</strong></td>
<td>Data lacking</td>
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<tr>
<td>Burning Time</td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Flame Height</strong></td>
<td>Data lacking</td>
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<tr>
<td>Flame Extension</td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Ignition Distance</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flame Duration</td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Self-Accelerating Decomposition</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Temperature (SADT)</strong></td>
<td>Data lacking</td>
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<tr>
<td>Heat of Combustion (ΔHc)</td>
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<tr>
<td><strong>Flammability (solid, gas)</strong></td>
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<tr>
<td><strong>Environmental</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td>Octanol/Water Partition coefficient</td>
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</tr>
<tr>
<td>Bioaccumulation Factor</td>
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</tr>
<tr>
<td>Biochemical Oxygen Demand</td>
<td>Data lacking</td>
</tr>
<tr>
<td>BOD/BOD₅</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Persistence</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Degradation</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- No data available

10.5 Incompatible materials

- No data available.

10.6 Hazardous decomposition products

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

11.1 Information on toxicological effects

Other Material Information

- This material is an article that does not release or otherwise result in exposure to a hazardous chemical under normal use. The information provided below is for components only and is not expected to be applicable to the material as a whole.

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Not relevant</td>
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<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
</tbody>
</table>

Route(s) of entry/exposure

No exposure expected to be possible

Potential Health Effects

Inhalation

- Acute (Immediate)
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
  - Under normal conditions of use, no health effects are expected.

Skin

- Acute (Immediate)
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
  - Under normal conditions of use, no health effects are expected.

Eye

- Acute (Immediate)
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
  - Under normal conditions of use, no health effects are expected.

Ingestion

- Acute (Immediate)
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
  - Under normal conditions of use, no health effects are expected.

Carcinogenic Effects

- This product contains carbon black (encapsulated)(1333-86-4). According to ARC "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."

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
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<tbody>
<tr>
<td>CAS</td>
<td>IARC</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
</tr>
</tbody>
</table>

Reproductive Effects

- No reproductive effects expected.

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

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

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

- Material data lacking.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

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

Packaging waste

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

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

- No special precautions.

14.7 Transport in bulk according to Annex II of
Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications  • None

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
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</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Zinc oxide</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

Inventory (Con't.)

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<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
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</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

Labor
Canada - WHMIS - Classifications of Substances

D2A  (In certain cases, this classification does not apply. For more information, consult the

- Carbon Black  1333-86-4  < 16.13% section Substance Specific Issues - Carbon Black, non-respirable on Health Canada’s WHMIS
Division website.)

- Zinc oxide  1314-13-2  <= 1.02%  Uncontrolled product according to WHMIS classification criteria
- Zinc oxide as Zinc compounds  <= 1.02%  Not Listed

Canada - WHMIS - Ingredient Disclosure List

- Carbon Black  1333-86-4  < 16.13%  1%
- Zinc oxide  1314-13-2  <= 1.02%  1%
- Zinc oxide as Zinc compounds  <= 1.02%  Not Listed

Environment
Canada - CEPA - Priority Substances List

- Carbon Black  1333-86-4  < 16.13%  Not Listed
China

Other

China - Annex I & II - Controlled Chemicals Lists

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Europe

Other

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% N R:50/53 S:60-61
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% S:60-61
- Zinc oxide as Zinc compounds <= 1.02% Not Listed
**EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2002/95/EC) (RoHS)**

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Other Ingredients**

- Carbon Black 1333-86-4 < 16.13% Cosmetic colorant
- Zinc oxide 1314-13-2 <= 1.02% Bulking (Zinc oxide); Cosmetic colorant (CI 77947); Skin protecting (Zinc oxide); UV absorber (Zinc oxide, other acceptable INCI name: ZINC OXIDE)
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Perfume and Aromatic Materials**

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**Germany**

**Labor**

**Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**Germany - Immission Control - Qualifying Quantities for Safety Reporting**

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**Germany - TRGS 505 - Specific Lead Regulations**

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

**Germany - TRGS 511 - Specific Ammonium Nitrate Regulations**

- Carbon Black 1333-86-4 < 16.13% Not Listed
Environment

Germany - TA Luft - Types and Classes

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - TA Luft - Emission Limits for Fibers

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - Water Classification (VwVwS) - Annex 1

- Carbon Black 1333-86-4 < 16.13% ID Number 1742, not considered hazardous to water
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Germany - Water Classification (VwVwS) - Annex 3

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% ID Number 2187, hazard class 2 - hazard to waters
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

United States

Labor

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

Environment

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

- Carbon Black 1333-86-4 < 16.13% Not Listed
- Zinc oxide 1314-13-2 <= 1.02% Not Listed
- Zinc oxide as Zinc compounds <= 1.02% Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% 1.0 % de minimis concentration (Chemical Category N682)

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

United States - California

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

• Carbon Black 1333-86-4 < 16.13% carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

United States - Pennsylvania

Labor

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% (fume)
• Zinc oxide as Zinc compounds <= 1.02%

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

• Carbon Black 1333-86-4 < 16.13% Not Listed
• Zinc oxide 1314-13-2 <= 1.02% Not Listed
• Zinc oxide as Zinc compounds <= 1.02% Not Listed

15.2 Chemical Safety Assessment

• Chemical Safety Assessment is not required.

Section 16 - Other Information
Last Revision Date
- 30/April/2013

Preparation Date
- 16/August/2012

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

Key to abbreviations
NDA = No Data Available