Safety Data Sheet

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

1.1 Product identifier

Product Name: High Temp Cop-R-Lube®
Synonyms: Thread Compound, Sealant, Anti-Seize, Lubricant

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

Relevant identified use(s): Anti-Seize, Lubricant, and Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer: Topco Oilsite Products Ltd.
Bay 7, 3401 - 19th Street N.E.
Calgary, Alberta T2E 6S8
Canada
www.topcooilsite.com
msds@topcooilsite.com

Telephone (General): 403-219-0255

1.4 Emergency telephone number

Manufacturer: 403-219-0255 - Manufacturer

Section 2: Hazards Identification

EU/EEC

2.1 Classification of the substance or mixture

CLP
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Reproductive Toxicity 1B - H360D
- Specific Target Organ Toxicity Single Exposure 1 - H370
- Specific Target Organ Toxicity Repeated Exposure 2 - H373
- Hazardous to the aquatic environment Acute 1 - H400
- Hazardous to the aquatic environment Chronic 1 - H410

2.2 Label Elements

CLP

DANGER

Hazard statements:
- H335 - May cause respiratory irritation
- H360D - May damage the unborn child.
- H370 - Causes damage to organs.
- 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
Precautionary statements

Prevention
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust.
- P264 - Wash thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor/physician.
- P321 - Specific treatment, see supplemental first aid information.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.
- P391 - Collect spillage.

Storage/Disposal
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP
- Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

UN GHS Revision 4
According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Fourth Revised Edition

2.1 Classification of the substance or mixture

UN GHS
- Skin Mild Irritation 3
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Reproductive Toxicity 1B
- Specific Target Organ Toxicity Single Exposure 1
- Specific Target Organ Toxicity Repeated Exposure 2
- Hazardous to the aquatic environment Acute 1
- Hazardous to the aquatic environment Chronic 1

2.2 Label elements

UN GHS

DANGER

Hazard statements
- Causes mild skin irritation
- May cause respiratory irritation
- May damage fertility or the unborn child.
- Causes damage to organs.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life
- Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

**Response**
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER/doctor if you feel unwell.
- If skin irritation occurs: Get medical advice/attention.
- IF exposed or concerned: Call a POISON CENTER or doctor/physician.
  Specific treatment, see supplemental first aid information.
- IF exposed or concerned: Get medical advice/attention if you feel unwell.
  Collect spillage.

**Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

**UN GHS**
- Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain
  
  According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012**
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Reproductive Toxicity 1B
- Specific Target Organ Toxicity Single Exposure 1
- Specific Target Organ Toxicity Repeated Exposure 2
- Hazards Not Otherwise Classified - Health Hazards - Metal fume fever

#### 2.2 Label elements

**OSHA HCS 2012**

**DANGER**

**Hazard statements**
- May cause respiratory irritation
- May damage fertility or the unborn child.
- Causes damage to organs.
- May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention**
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

**Response**
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER/doctor if you feel unwell.
- IF exposed: Call POISON CENTER or doctor/physician.
  Specific treatment, see supplemental first aid information.
- IF exposed or concerned: Get medical advice/attention.
  Get medical advice/attention if you feel unwell.
Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012 • Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada
According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation Reproductive Toxicity 1B Specific Target Organ Toxicity Single Exposure 1 Specific Target Organ Toxicity Repeated Exposure 2 Health Hazards Not Otherwise Classified 1

2.2 Label elements

WHMIS 2015

DANGER

Hazard statements • May cause respiratory irritation May damage fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain.

Precautionary statements

Prevention • Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Call a POISON CENTER/doctor. Specific treatment, see supplemental first aid information. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

WHMIS 2015 • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).
### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

- Material does not meet the criteria of a substance.

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic</td>
<td>CAS:64741-88-4  EC Number:265-090-8 EU Index:649-454-00-7</td>
<td>45.5% TO 67.5%</td>
<td>Ingestion/Oral-Rat LD50 • &gt;5000 mg/kg Skin-Rabbit LD50 • &gt;2000 mg/kg</td>
<td>EU CLP: Annex VI, Table 3.1: Carc. 1B, H350 UN GHS Revision 4: Skin Irrit. 3; Asp. Tox. 2 OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>CAS:1317-38-0</td>
<td>25% TO 35%</td>
<td>Ingestion/Oral-Rat LD50 • 470 mg/kg</td>
<td>EU CLP: Annex VI, Table 3.1: Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10) UN GHS Revision 4: Acute Tox. 4 (Orl); Aquatic Acute 1 (M=10); Aquatic Chronic 1 (M=1) OSHA HCS 2012: Acute Tox. 4 (Orl); Hazard Not Otherwise Classified - Health Hazard - Metal Fume Fever WHMIS 2015: Acute Tox. 4 (Orl); Hazard Not Otherwise Classified - Health Hazard - Metal Fume Fever</td>
<td>NDA</td>
</tr>
<tr>
<td>Copper</td>
<td>CAS:7440-50-8    EC Number:231-159-6</td>
<td>31.5% TO 35%</td>
<td>NDA</td>
<td>EU CLP: Repr. 1B, H360D (Oral); STOT SE 1, H370 (Kidney/Oral); STOT SE 3: Resp. Irrit., H335; STOT RE 2, H373 (Liver/Oral); Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10) UN GHS Revision 4: Repr. 1B (Orl); STOT SE 1 (Kidney/Oral); STOT SE 3: Resp. Irrit.; STOT RE 2 (Liver/Oral); Aquatic Acute 1 (M=100); Aquatic Chronic 1 (M=10) OSHA HCS 2012: Comb. Dust; Repr. 1B (Orl); STOT SE 1 (Kidney/Oral); STOT SE 3: Resp. Irrit.; STOT RE 2 (Liver/Oral); Hazard Not Otherwise Classified - Health Hazard - Metal Fume Fever WHMIS 2015: Comb. Dust; Repr. 1B (Orl); STOT SE 1 (Kidney/Oral); STOT SE 3: Resp. Irrit.; STOT RE 2 (Liver/Oral); Hazard Not Otherwise Classified - Health Hazard - Metal Fume Fever</td>
<td>NDA</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>CAS:61789-86-4   EINECS:263-093-9</td>
<td>0.65% TO 3.75%</td>
<td>NDA</td>
<td>EU CLP: Not Classified UN GHS Revision 4: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>CAS:471-34-1     EC Number:207-439-9</td>
<td>0.65% TO 3.75%</td>
<td>Ingestion/Oral-Rat LD50 • 6450 mg/kg</td>
<td>EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319 UN GHS Revision 4: Skin Irrit. 2; Eye Irrit. 2 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2</td>
<td>NDA</td>
</tr>
</tbody>
</table>
**Section 4 - First Aid Measures**

4.1 Description of first aid measures

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

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Get medical attention if symptoms occur.

**Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention if symptoms occur.

**Ingestion**
- Obtain medical attention immediately if ingested.

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**
- In case of fire use media as appropriate for surrounding fire.

**Unsuitable Extinguishing Media**
- No data available

5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- The product itself does not burn.

**Hazardous Combustion Products**
- No data available

5.3 Advice for firefighters
- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

**Section 6 - Accidental Release Measures**
6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures
- Keep unauthorized personnel away. Stay upwind.

6.2 Environmental precautions
- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up
- Carefully shovel or sweep up spilled material and place in suitable container.

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 only with adequate ventilation. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Keep container tightly closed. Store in a cool, 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></th>
<th>Exposures Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
</tr>
<tr>
<td>Calcium monosulfate (471-34-1)</td>
<td>TWAs</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>TWAs</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>TWAs</td>
</tr>
</tbody>
</table>

Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th></th>
<th>Exposures Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
</tr>
<tr>
<td></td>
<td>20 mg/m³ STEL</td>
</tr>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>STELs</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>TWAs</td>
</tr>
<tr>
<td>Copper (7440-50-8)</td>
<td>TWAs</td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Country</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>China</th>
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<tbody>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m³ TWA EV (total dust)</td>
<td>10 mg/m³ TWA (listed under Limestone)</td>
<td>30 mppcf TWA; 10 mg/m³ TWA</td>
<td>Not established</td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>20 mg/m³ STEL (listed under Limestone)</td>
<td>20 mg/m³ STEL</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>0.6 mg/m³ STEL (fume); 3 mg/m³ STEL (dust and mist)</td>
<td>0.2 mg/m³ STEL (fume); 2 mg/m³ STEL (dust and mist)</td>
<td>2.5 mg/m³ STEL (dust); 0.6 mg/m³ STEL (fume)</td>
<td></td>
</tr>
<tr>
<td>TWAs</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.2 mg/m³ TWAEV (fume); 1 mg/m³ TWAEV (dust and mist)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>1 mg/m³ TWA (dust); 0.2 mg/m³ TWA (fume)</td>
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</tr>
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### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Country</th>
<th>France</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
<th>India</th>
<th>Indonesia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral oil, white (8042-47-5)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>5 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, respirable fraction, exposure factor 4)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>20 mg/m³ Peak (respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>MAKs</td>
<td>Not established</td>
<td>5 mg/m³ TWA MAK (respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA [VME]</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt (61789-86-4)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>5 mg/m³ TWA AGW (respirable fraction, exposure factor 4)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>20 mg/m³ Peak (respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper (7440-50-8)</td>
<td>MAKs</td>
<td>Not established</td>
<td>5 mg/m³ TWA MAK (respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>-------------------</td>
<td>------</td>
<td>-----------------</td>
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</tr>
<tr>
<td>TWAs</td>
<td>0.2 mg/m³ TWA [VME] (fume); 1 mg/m³ TWA [VME] (dust, as Cu)</td>
<td>Not established</td>
<td>Not established</td>
<td>0.2 mg/m³ TWA (fume)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td></td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL [VLCT] (dust, as Cu)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>STELs</td>
<td>0.02 mg/m³ Peak (respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>MAKs</td>
<td>0.01 mg/m³ TWA MAK (including inorganic copper compounds, respirable fraction)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Israel</th>
<th>Malaysia</th>
<th>Mexico</th>
<th>Netherlands</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calcium monocarbonate</strong> (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>TWAs</td>
<td>1 mg/m³ TWA (dust and mist, as Cu) as Copper compounds</td>
<td>Not established</td>
<td>Not established</td>
<td>0.1 mg/m³ TWA (fume, as Cu)</td>
</tr>
<tr>
<td><strong>Copper</strong></td>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Copper</strong></td>
<td>TWAs</td>
<td>0.2 mg/m³ TWA (fume)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.2 mg/m³ TWA VLE-PPT (fume, as Cu); 1 mg/m³ TWA VLE-PPT (dust and mist, as Cu)</td>
<td>0.1 mg/m³ TWA (inhalable fraction)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>OSHA</th>
<th>OSHA Vacated</th>
<th>Portugal</th>
<th>Russia</th>
<th>Singapore</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calcium monocarbonate</strong> (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m³ TWA [VLE-MP] (particulate matter containing no Asbestos and &lt;1% Crystalline silica)</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper (7440-50-8)</td>
<td>TWAs</td>
<td>0.1 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)</td>
<td>0.1 mg/m³ TWA (dust, fume, mist, as Cu)</td>
<td>0.2 mg/m³ TWA [VLE-MP] (fume); 1 mg/m³ TWA [VLE-MP] (dust and mist, as Cu)</td>
<td>0.5 mg/m³ TWA (aerosol)</td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>1 mg/m³ STEL (aerosol)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>United Kingdom</th>
<th>United States - California</th>
<th>Venezuela</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calcium monocarbonate</strong> (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>5 mg/m³ PEL (respirable fraction, listed under Particulates not otherwise regulated); 10 mg/m³ PEL (total dust, listed)</td>
</tr>
</tbody>
</table>
**Exposure Control Notations**

**Japan**
- Copper oxide as Copper compounds: **Sensitizers**: (Group 2 skin sensitizer (Evaluation does not necessarily apply to all individuals within the group))
- Copper (7440-50-8): **Sensitizers**: (Group 2 skin sensitizer)
- Copper as Copper compounds: **Sensitizers**: (Group 2 skin sensitizer (Evaluation does not necessarily apply to all individuals within the group))

**Egypt**
- Calcium monocarbonate (471-34-1): **Nuisance Dusts**: (10 mg/m³ TWA (containing <1% Quartz, total dust); 30 mppcf TWA (containing <1% Quartz, total dust); 3 mg/m³ TWA (containing <1% Quartz, inhalable dust))

**Russia**
- Mineral oil, white (8042-47-5): **Skin**: (Skin notation)

**Germany DFG**
- Sulfonic acid, petroleum, calcium salt (61789-86-4): **Pregnancy**: (classification not yet possible (respirable fraction))
- Copper (7440-50-8): **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to)
- Mineral oil, white (8042-47-5): **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to (respirable fraction))

**Exposure Limits Supplemental**

**ACGIH**
- Copper oxide as Copper compounds: **TLV Basis - Critical Effects**: (gastrointestinal (dust and mist); irritation (dust and mist))
- Copper (7440-50-8): **TLV Basis - Critical Effects**: (metal fume fever (fume))
- Copper as Copper compounds: **TLV Basis - Critical Effects**: (gastrointestinal (dust and mist); irritation (dust and mist))

**8.2 Exposure controls**

**Engineering Measures/Controls**
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Equipment**
- **Respiratory**: 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. Wear long sleeves and/or protective coveralls.

**Environmental Exposure Controls**
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

- ACGIH = American Conference of Governmental Industrial Hygiene
- MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- TLV = Threshold Limit Value determined by the American Conference of Governmental Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- TWAEV = Time-Weighted Average Exposure Value
Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Appearance/Description</strong></td>
<td>Brown/copper semi-solid paste with mild petroleum odor.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Brown/copper</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
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<table>
<thead>
<tr>
<th>General Properties</th>
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<tbody>
<tr>
<td><strong>Boiling Point</strong></td>
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<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Oxidizing Properties:</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Volatility</th>
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<tbody>
<tr>
<td><strong>Vapor Pressure</strong></td>
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<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Data lacking</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
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</thead>
<tbody>
<tr>
<td><strong>Flash Point</strong></td>
<td>Data lacking</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>
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<tr>
<td><strong>Autoignition</strong></td>
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<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Octanol/Water Partition coefficient</strong></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

- Keep away from heat, sparks and flame.

10.5 Incompatible materials

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- Carbon Monoxide, Carbon Dioxide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects
<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper oxide (25% TO 35%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Rat LD50 • 470 mg/kg</td>
</tr>
<tr>
<td>Calcium monobasic carbonate (0.65% TO 3.75%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Rat LD50 • 6450 mg/kg; Ingestion/Oral-Rat LD50 • &gt;5 g/kg</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt (0.65% TO 3.75%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Rat LD50 • &gt;5 g/kg; Gastrointestinal: Hypermotility, diarrhea; Skin-Rabbit LD50 • &gt;5 g/kg</td>
</tr>
<tr>
<td>Copper (31.5% TO 35%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Mouse TDLo • 108 mg/kg; Behavioral: Tremor; Gastrointestinal: Hypermotility, diarrhea; Gastrointestinal: Nausea or vomiting; Ingestion/Oral-Mouse TDLo • 158 mg/kg; Kidney, Ureter, and Bladder: Changes in tubules (including acute renal failure, acute tubular necrosis); Ingestion/Oral-Mouse TDLo • 232 mg/kg; Kidney, Ureter, and Bladder: Changes primarily in glomeruli; Blood: Changes in spleen; Blood: Changes in serum composition (e.g., TP, bilirubin cholesterol); Multi-dose Toxicity: Ingestion/Oral-Rabbit TDLo • 3 g/kg 60 Day(s)-Continuous; Cardiac: Other changes; Liver: Hepatitis (hepatocellular necrosis), zonal; Related to Chronic Data: Death in the Other Multiple Dose data type field; Reproductive: Ingestion/Oral-Rat TDLo • 152 mg/kg (22W pre); Reproductive Effects: Effects on Embryon or Fetus: Fetoxicity (except death, e.g., stunted fetus); Reproductive Effects: Specific Developmental Abnormalities: Central nervous system; Ingestion/Oral-Rat TDLo • 1210 µg/kg (35W pre); Reproductive Effects: Effects on Fertility: Pre-implantation mortality; Reproductive Effects: Effects on Fertility: Post-implantation mortality; Ingestion/Oral-Rat LD50 • 1520 µg/kg (22W pre); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 10.08 mg/kg 12 Week(s)-Continuous; Tumorigenic: Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Other changes</td>
</tr>
<tr>
<td>Mineral oil, white (0.35% TO 1.75%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Rat LD50 • &gt;5000 mg/kg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 92 g/kg 92 Day(s)-Continuous; Liver: Changes in liver weight; Blood: Changes in leucocyte (WBC) count; Nutritional and Gross Metabolic: Gross Metabolite Changes: Weight loss or decreased weight gain</td>
</tr>
<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt (0.65% TO 3.75%)</td>
<td><strong>Acute Toxicity</strong>: Ingestion/Oral-Rat LD50 • 1300 mg/kg</td>
</tr>
</tbody>
</table>

### GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
<th>EU/CLP</th>
<th>UN GHS 4</th>
<th>OSHA HCS 2012</th>
<th>WHMIS 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>Data lacking</td>
<td>Skin Mild Irritation 3</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>
### Potential Health Effects

#### Inhalation
- **Acute (Immediate)**: May cause respiratory irritation.
- **Chronic (Delayed)**: No data available

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

#### Eye
- **Acute (Immediate)**: Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**: No data available

#### Ingestion
- **Acute (Immediate)**: Ingestion of large amounts of copper may cause damage to the kidneys.
- **Chronic (Delayed)**: Repeated and prolonged exposure to copper may affect the liver.

#### Reproductive Effects
- Repeated and prolonged exposure may cause reproductive effects.
11.2 Other information

- Heating above the melting point releases metallic oxides which may cause metal fume fever which is an influenza like illness. Symptoms include headache, metallic taste in the mouth, cough, thirst, throat irritation, shortness of breath, fever, sweating and pain in the limbs. This illness is not permanent and recovery usually occurs within 24-48 hours after onset.

Key to abbreviations
LD = Lethal Dose
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Aquatic Toxicity-Fish: 96 Hour(s) LC50 Gambusia affinis (Western Mosquitofish) &gt;56000 mg/L</th>
<th>Aquatic Toxicity-Fish: 96 Hour(s) LC50 Osteichthyes (Bony Fishes) 0.0051 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper oxide (25% TO 35%)</td>
<td>1317-38-0</td>
<td>15 Day(s) NOEC Cyprinus carpio (Common Carp) 0.0128 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 Hour(s) EC50 Daphnia magna (Water Flea) 92.7 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>72 Hour(s) EC50 Pseudokirchneriella subcapitata (Green Algae) 0.014 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Day(s) NOEC Pseudokirchneriella subcapitata (Green Algae) 0.421 mg/L</td>
</tr>
<tr>
<td>Copper oxide (31.5% TO 35%)</td>
<td>7440-50-8</td>
<td>96 Hour(s) LC50 Osteichthyes (Bony Fishes) 0.0051 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 Day(s) NOEC Salmo trutta (Brown Trout) 0.0075 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 Hour(s) EC50 Ceriodaphnia dubia (Water Flea) 0.002 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 Hour(s) EC50 Chlorella sp. (Green Algae) 0.0011 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 Day(s) NOEC Laminaria saccharina (Tangleweed, Brown Algae) 0.01 mg/L</td>
</tr>
</tbody>
</table>

- Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability
- Material data lacking.

12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

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

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN3077</td>
<td>Environmentally hazardous substance, solid, n.o.s. (copper, cupric oxide)</td>
<td>9</td>
<td>III</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>TDG</td>
<td>UN3077</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, cupric oxide)</td>
<td>9</td>
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<td>Marine Pollutant</td>
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<tr>
<td>IMO/IMDG</td>
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<td>III</td>
<td>Marine Pollutant</td>
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<td>IATA/ICAO</td>
<td>UN3077</td>
<td>Environmentally hazardous substance, solid, n.o.s. (copper, cupric oxide)</td>
<td>9</td>
<td>III</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
• None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
• Data lacking.

Section 15 - Regulatory Information

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>68584-23-6</td>
<td>No</td>
</tr>
<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt</td>
<td>26264-06-2</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>471-34-1</td>
<td>No</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>1317-38-0</td>
<td>No</td>
</tr>
<tr>
<td>Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic</td>
<td>64741-88-4</td>
<td>No</td>
</tr>
<tr>
<td>Mineral oil, white</td>
<td>8042-47-5</td>
<td>No</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>61789-86-4</td>
<td>No</td>
</tr>
<tr>
<td>Component</td>
<td>CAS</td>
<td>Australia AICS</td>
</tr>
<tr>
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<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>68584-23-6</td>
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<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt</td>
<td>26264-06-2</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>471-34-1</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>1317-38-0</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic</td>
<td>64741-88-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral oil, white</td>
<td>8042-47-5</td>
<td>Yes</td>
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<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>61789-86-4</td>
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**Inventory (Con't.)**

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<tr>
<th>Component</th>
<th>CAS</th>
<th>EU ELNICS</th>
<th>Japan ENCS</th>
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<tbody>
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<td>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>68584-23-6</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt</td>
<td>26264-06-2</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>471-34-1</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper oxide</td>
<td>1317-38-0</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic</td>
<td>64741-88-4</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral oil, white</td>
<td>8042-47-5</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>61789-86-4</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**United States - California**

**Environment**

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

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium monocarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium moncarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed

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

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium moncarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed

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

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium moncarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed

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

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium moncarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed

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

- Sulfonic acid, petroleum, calcium salt 61789-86-4 Not Listed
- Copper oxide 1317-38-0 Not Listed
- Copper 7440-50-8 Not Listed
- Mineral oil, white 8042-47-5 Not Listed
- Calcium moncarbonate 471-34-1 Not Listed
- Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
- Benzenesulfonic acid, dodecyl-, calcium salt 26264-06-2 Not Listed
- Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic 64741-88-4 Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.
Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H350 - May cause cancer.

Revision Date

03/July/2018

Last Revision Date

03/July/2018

Preparation Date

01/August/2016

Disclaimer/Statement of Liability

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key to abbreviations

NDA = No Data Available