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

1.1 Product identifier
Product Name • Kendex G043 OCTG
Synonyms • Grease, Lubricant, Thread Compound

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s) • Lubricant, long term rust and corrosion protection

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
Poison & Drug Information Service (Alberta Health Services) • 1-800-332-1414

Section 2: Hazards Identification

EU/EEC

2.1 Classification of the substance or mixture
CLP • Not classified

2.2 Label Elements
CLP
Hazard statements • No label element(s) required

2.3 Other Hazards
CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is not 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 • Hazardous to the aquatic environment Acute 3

2.2 Label elements
UN GHS

Hazard statements • Harmful to aquatic life

Precautionary statements

Prevention • Avoid release to the environment.

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

2.3 Other hazards

UN GHS • According to the Globally Harmonized 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 • Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

Precautionary statements

Prevention • Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

2.3 Other hazards

OSHA HCS 2012 • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada
According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

2.2 Label elements

WHMIS 2015

Hazard statements • No label element(s) required

Precautionary statements

2.3 Other hazards

WHMIS 2015 • In Canada, the product mentioned above is not 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-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)</td>
<td>CAS:64742-65-0 EC Number:265-169-7 EU Index:649-474-00-6</td>
<td>50% TO 70%</td>
<td>Ingestion/Oral-Rat LD50 • 5000 mg/kg Skin-Rabbit LD50 • 5000 mg/kg Inhalation-Rat LC50 • &gt;5 mg/L 4 Hour(s)</td>
<td>EU CLP: Annex VI, Table 3.1: Carc. 1B, H350 UN GHS Revision 4: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified</td>
<td>NDA</td>
</tr>
<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>10% TO 20%</td>
<td>Ingestion/Oral-Rat LD50 • 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: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Calcium moncarbonate</td>
<td>CAS:471-34-1 EC Number:207-439-9</td>
<td>10% TO 20%</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. 3; Asp. Tox. 2 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2</td>
<td>NDA</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>CAS:61789-86-4 EINECS:263-093-9</td>
<td>1% TO 5%</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 alkylbenzene sulfonate</td>
<td>CAS:70024-69-0 EINECS:274-263-7</td>
<td>1% TO 5%</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>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>CAS:68584-23-6 EINECS:271-529-4</td>
<td>1% TO 5%</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>Benzenesulfonic acid, dodecyl-, calcium salt</td>
<td>CAS:26264-06-2 EINECS:247-557-8</td>
<td>1% TO 3%</td>
<td>Ingestion/Oral-Rat LD50 • 1300 mg/kg</td>
<td>EU CLP: Acute Tox. 4, H302 UN GHS Revision 4: Acute Tox. 4 (oral); Aquatic Acute 2 OSHA HCS 2012: Acute Tox. 4 (oral) WHMIS 2015: Acute Tox. 4 (oral)</td>
<td>NDA</td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td>CAS:128-37-0 EC Number:204-881-4</td>
<td>0.1% TO 0.25%</td>
<td>Ingestion/Oral-Rat LD50 • 890 mg/kg</td>
<td>EU CLP: Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 UN GHS Revision 4: Acute Tox. 4 (oral); Skin Irrit. 2; Eye Irrit. 2; Aquatic Acute 2 OSHA HCS 2012: Acute Tox. 4 (oral); Skin Irrit. 2; Eye Irrit. 2 WHMIS 2015: Acute Tox. 4 (oral); Skin Irrit. 2; Eye Irrit. 2</td>
<td>NDA</td>
</tr>
</tbody>
</table>

See Section 16 for full text of H-statements.

**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**
- Wash skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

**Ingestion**
- Rinse mouth. Give plenty of water to drink. 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**
- Burning produces noxious and toxic fumes.

**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 Measures**
- Stop leak if you can do it without risk. 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. Keep away from heat and ignition sources. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. 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 only in the original container. 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>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
<th>Argentina</th>
<th>Australia</th>
<th>Canada Alberta</th>
<th>Canada British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>TWAs</td>
<td>2 mg/m3 TWA (inhalable fraction and vapor)</td>
<td>2 mg/m3 TWA [CMP] (inhalable fraction, aerosol and vapor)</td>
<td>10 mg/m3 TWA</td>
<td>10 mg/m3 TWA</td>
<td>2 mg/m3 TWA (aerosol, inhalable, and vapour)</td>
</tr>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWA (containing no asbestos and &lt;1% crystalline silica, inhalable dust)</td>
<td>10 mg/m3 TWA</td>
<td>Not established</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines (Con’t.)</th>
<th>Result</th>
<th>Canada Manitoba</th>
<th>Canada New Brunswick</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>TWAs</td>
<td>2 mg/m3 TWA (inhalable fraction and vapor)</td>
<td>10 mg/m3 TWA</td>
<td>2 mg/m3 TWA (inhalable fraction and vapour)</td>
<td>2 mg/m3 TWA (inhalable fraction and vapour)</td>
<td>2 mg/m3 TWA (inhalable fraction and vapour)</td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>4 mg/m3 STEL (inhalable fraction and vapour)</td>
<td>Not established</td>
<td>4 mg/m3 STEL (inhalable fraction and vapour)</td>
<td></td>
</tr>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>20 mg/m3 STEL (listed under Limestone)</td>
<td>Not established</td>
<td>20 mg/m3 STEL (listed under Limestone)</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWA (listed under Limestone)</td>
<td>Not established</td>
<td>10 mg/m3 TWA (listed under Limestone)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines (Con’t.)</th>
<th>Result</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>France</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>TWAs</td>
<td>2 mg/m3 TWA (inhalable fraction and vapor)</td>
<td>Not established</td>
<td>2 mg/m3 TWA (inhalable fraction and vapour)</td>
<td>10 mg/m3 TWA</td>
<td>10 mg/m3 TWA [VME]</td>
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<tr>
<td>STELs</td>
<td>Not established</td>
<td>10 mg/m3 STEV</td>
<td>4 mg/m3 STEL (inhalable fraction and vapour)</td>
<td>20 mg/m3 STEL</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Calcium monocarbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m3 TWA (total dust)</td>
<td>10 mg/m3 TWA (listed under Limestone)</td>
<td>30 mppcf TWA; 10 mg/m3 TWA</td>
<td>10 mg/m3 TWA [VME]</td>
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<tr>
<td>STELs</td>
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<td>Not established</td>
<td>20 mg/m3 STEL (listed under Limestone)</td>
<td>20 mg/m3 STEL</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines (Con’t.)</th>
<th>Result</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
<th>Indonesia</th>
<th>Israel</th>
<th>Malaysia</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>TWAs</td>
<td>Not established</td>
<td>10 mg/m3 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 4)</td>
<td>10 mg/m3 TWA</td>
<td>2 mg/m3 TWA (inhalable fraction and vapour)</td>
<td>10 mg/m3 TWA</td>
</tr>
<tr>
<td>Exposure Limits/Guidelines (Con’t.)</td>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>Calcium monocarbonate (471-34-1)</td>
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<tr>
<td><strong>Result</strong></td>
<td><strong>Mexico</strong></td>
<td><strong>NIOSH</strong></td>
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<tr>
<td>STELs</td>
<td>20 mg/m3 STEL [PPT-CT]</td>
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<tr>
<td>TWAs</td>
<td>10 mg/m3 TWA VLE-PPT</td>
<td>10 mg/m3 TWA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mg/m3 TWA (respirable fraction)</td>
<td>2 mg/m3 TWA [VLE-MP]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mg/m3 TWA (total dust)</td>
<td>20 mg/m3 TWA [VLE-MP]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 mg/m3 TWA (respirable dust)</td>
<td>10 mg/m3 TWA</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>5 mg/m3 TWA (total dust)</td>
<td>calcium dust, listed under</td>
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<td></td>
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<td>regulated; 10 mg/m3 PEL (total</td>
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<td><strong>Result</strong></td>
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<td><strong>OSHA Vacated</strong></td>
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<td>10 mg/m3 TWA</td>
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<td>STELs</td>
<td>30 mg/m3 STEL (calculated)</td>
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<tr>
<td>STELs</td>
<td></td>
<td>Not established</td>
<td></td>
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</tr>
<tr>
<td><strong>Result</strong></td>
<td><strong>United States - California</strong></td>
<td><strong>Venezuela</strong></td>
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</tr>
<tr>
<td>TWAs</td>
<td>10 mg/m3 TWA</td>
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<tr>
<td>STELs</td>
<td>5 mg/m3 PEL (respirable fraction,</td>
<td>10 mg/m3 TWA [VTRE-L-8/40</td>
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<tr>
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<td>otherwise regulated; 10 mg/m3 PEL</td>
<td></td>
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<tr>
<td></td>
<td>(total dust, listed under Particulates not otherwise regulated)</td>
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<td></td>
<td>otherwise regulated)</td>
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</tr>
</tbody>
</table>

**Exposure Control Notations**

**Mexico**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not classifiable as a human carcinogen)
- 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))

**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))

**Portugal**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)
- 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))

**Indonesia**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - not classifiable as a human carcinogen)

**Argentina**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - not classifiable as a human carcinogen)

**Canada Manitoba**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 Not Classifiable as a Human Carcinogen)

**Canada New Brunswick**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)

**Canada Nova Scotia**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)

**Venezuela**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)

**ACGIH**
- 2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens**: (A4 - Not Classifiable as a Human Carcinogen)

**Germany DFG**
- Sulfonic acid, petroleum, calcium salt (61789-86-4): **Pregnancy**: (classification not yet possible (respirable fraction))
• 2,6-Di-tert-butyl-p-cresol (128-37-0): Carcinogens: (Category 4 (no significant contribution to human cancer)) | Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental
ACGIH
• 2,6-Di-tert-butyl-p-cresol (128-37-0): TLV Basis - Critical Effects: (upper respiratory tract irritation)

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
• Polyvinyl alcohol or nitrile-butyl-rubber 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
STEV = Short Term Exposure Value
TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial 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>Physical Form</th>
<th>Appearance/Description</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
<td>Orange semi-solid smooth paste with mild petroleum odor.</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Color</td>
<td>Orange</td>
<td>Odor</td>
<td>Mild, petroleum.</td>
</tr>
</tbody>
</table>

General Properties

| Boiling Point                 | Data lacking | Melting Point/Freezing Point | Data lacking |
| Decomposition Temperature     | Data lacking | pH                      | Data lacking |
| Specific Gravity/Relative Density | Data lacking | Density                 | 0.95 to 1.05 g/mL |
| Water Solubility              | Data lacking | Viscosity               | 15 to 25 Centipoise (cPs, cP) or mPas |
| Explosive Properties          | Data lacking | Oxidizing Properties:   | Data lacking |

Volatile

| Flash Point                   | Data lacking | Vapor Pressure | Data lacking |
| Evaporation Rate              | Data lacking |                |               |

Flammability

| Flash Point                   | > 180 °C(> 356 °F) COC (Cleveland Open Cup) | UEL | Data lacking |
| LEL                           | Data lacking | Autoignition     | Data lacking |
| Flammability (solid, gas)     | Data lacking |                |               |

Environmental

| Octanol/Water Partition coefficient | Data lacking |

9.2 Other Information
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
- None in particular.

10.6 Hazardous decomposition products
- Hazardous decomposition products formed under fire conditions: Carbon oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • &gt;5000 mg/kg; Skin-Rabbit LD50 • &gt;5000 mg/kg; Tumorigen / Carcinogen: Skin-Mouse • 389 g/kg 78 Week(s)-Intermittent; Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages: Other Tumors: Tumorigenic; Tumors at site of application; Skin-Mouse TDLo • 386 g/kg 22 Week(s)-Intermittent; Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages: Other Tumors: Tumorigenic; Tumors at site of application</th>
<th>64742-65-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium monocarbonate (10% TO 20%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 6450 mg/kg; Irritation: Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Multi-dose Toxicity: Ingestion/Oral-Woman TDLo • 4.08 g/kg 30 Day(s)-Intermittent; Vascular: BP elevation not characterized in autonomic section; Gastrointestinal: Changes in structure or function of endocrine pancreas; Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation</td>
<td>471-34-1</td>
</tr>
<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt (1% TO 3%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 1300 mg/kg</td>
<td>26264-06-2</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt (1% TO 5%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • &gt;5 g/kg; Gastrointestinal: Hypermotility, diarrhea; Skin-Rabbit LD50 • &gt;5 g/kg</td>
<td>61789-86-4</td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (0.1% TO 0.25%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 890 mg/kg; Ingestion/Oral-Rat TDLo • 25 mg/kg; Blood: Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels; Transaminases: Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels; Other enzymes: Ingestion/Oral-Woman TDLo • 80 mg/kg; Behavioral: Coma; Gastrointestinal: Gastritis; Gastrointestinal: Nausea or vomiting; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 48 Hour(s) • Moderate irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 6.3 mg/kg 1 Week(s)-Continuous; Brain and Coverings: Changes in circulation (Hemorrhage, thrombosis, etc.); Blood: Hemorrhage; Related to Chronic Data: Death in the Other Multiple Dose data type field; Ingestion/Oral-Rat TDLo • 39.7 mg/kg 3 Day(s)-Intermittent; Blood: Change in clotting factors; Ingestion/Oral-Rat TDLo • 2.625 mg/kg 1 Week(s)-Continuous; Liver: Other changes; Blood: Change in clotting factors; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels; Multiple enzyme effects; Mutagen: Other mutation test systems • Ingestion/Oral-Mouse • 500 mg/kg; Dominant lethal test • Ingestion/Oral-Mouse • 12 g/kg 10 Week(s)-Continuous; Dominant lethal test • Ingestion/Oral-Rat • 5460 mg/kg 10 Week(s)-Continuous; Reproductive: Ingestion/Oral-Mouse TDLo • 43800 mg/kg (52D pre/1-21D preg); Reproductive Effects: Maternal Effects: Parturition; Reproductive Effects: Effects on Newborn: Weaning or lactation index; Reproductive Effects: Effects on Newborn: Growth statistics (e.g., reduced</td>
<td>128-37-0</td>
</tr>
</tbody>
</table>
**GHS Properties** | **Classification**
--- | ---
**Acute toxicity** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Skin corrosion/Irritation** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Serious eye damage/Irritation** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Skin sensitization** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Respiratory sensitization** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Aspiration Hazard** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Carcinogenicity** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Germ Cell Mutagenicity** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**Toxicity for Reproduction** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**STOT-SE** | EU/CLP: Data lacking
UN GHS 4: Data lacking
OSHA HCS 2012: Data lacking
WHMIS 2015: Data lacking

**STOT-RE** | EU/CLP: Data lacking
UN GHS 4: Data lacking

*weight gain*; Ingestion/Oral-Mouse TDLo • 1200 mg/kg (9D preg); Reproductive Effects: Specific Developmental Abnormalities: **Musculoskeletal system**: Tumorigen / Carcinogen: Ingestion/Oral-Mouse • 1423 mg/kg 43 Week(s)-Continuous; Tumorigenic: Neoplastic by RTECS criteria: Liver: Tumors: Ingestion/Oral-Rat • 247 g/kg 3 Year(s)-Continuous; Tumorigenic: Neoplastic by RTECS criteria: Liver: Tumors: Ingestion/Oral-Mouse TDLo • 435 mg/kg 69 Week(s)-Continuous; Tumorigenic: Carcinogenic by RTECS criteria: Liver: Tumors: Ingestion/Oral-Mouse • 435 mg/kg 3 Week(s)-Intermittent; Tumorigenic: Neoplastic by RTECS criteria: Liver: Tumors: Ingestion/Oral-Mouse TDLo • 1200 mg/kg 3 Week(s)-Intermittent; Tumorigenic: Neoplastic by RTECS criteria: Lungs, Thorax, or Respiration: Tumors; Tumorigenic: Tumors after systemic administration not seen spontaneously.
Potential Health Effects

Inhalation
Acute (Immediate) • Under normal conditions of use, no health effects are expected.
Chronic (Delayed) • No data available

Skin
Acute (Immediate) • Under normal conditions of use, no health effects are expected.
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) • Under normal conditions of use, no health effects are expected.
Chronic (Delayed) • No data available

Key to abbreviations
LD = Lethal Dose
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity
• Harmful to aquatic life.

12.2 Persistence and degradability
• Material data lacking.

12.3 Bioaccumulative potential
• Material data lacking.

12.4 Mobility in Soil
• Material data lacking.

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

12.6 Other adverse effects
• No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods
Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
</table>

OSHA HCS 2012•Data lacking
WHMIS 2015•Data lacking
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

SARA Hazard Classifications
- Acute

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>PA</th>
<th>State Right To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td>128-37-0</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>68584-23-6</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzenesulfonic acid, dodecyl-, calcium salt</td>
<td>26264-06-2</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium alkylbenzene sulfonate</td>
<td>70024-69-0</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium monocarbonate</td>
<td>471-34-1</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)</td>
<td>64742-65-0</td>
<td>No</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>Yes</td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>61789-86-4</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Australia AICS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
</tr>
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<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Component</td>
<td>CAS</td>
<td>EU ELNICS</td>
<td>Japan ENCS</td>
<td>TSCA</td>
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<td>No</td>
<td>Yes</td>
<td></td>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfonic acid, petroleum, calcium salt</td>
<td>61789-86-4</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></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
  - 2,6-Di-tert-butyl-p-cresol 128-37-0 Not Listed
  - Calcium monocarbonate 471-34-1 Not Listed
  - Calcium alkylbenzene sulfonate 70024-69-0 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-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment) 64742-65-0 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
  - 2,6-Di-tert-butyl-p-cresol 128-37-0 Not Listed
  - Calcium monocarbonate 471-34-1 Not Listed
  - Calcium alkylbenzene sulfonate 70024-69-0 Not Listed
  - Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 Not Listed
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  - 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
  - 2,6-Di-tert-butyl-p-cresol 128-37-0 Not Listed
  - Calcium monocarbonate 471-34-1 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 • 21/September/2017
Last Revision Date • 03/August/2017
Preparation Date • 03/August/2017

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