SAFETY DATA SHEET
RTD COMPOUND

Page: 1
Revision date: 11/02/2019
Revision No: 15

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: RTD COMPOUND

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

Use of substance / mixture: Lubricant for reaming, tapping and drilling.

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House
Swillington
Leeds
West Yorkshire
LS26 8BS
ENGLAND

Tel: +44 (0) 113 232 2700
Fax: +44 (0) 113 232 2740
Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Lact.: H362; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; -: EUH066; -: EUH208

Most important adverse effects: Repeated exposure may cause skin dryness or cracking. Contains terpineol. May produce an allergic reaction. May cause harm to breast-fed children. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: EUH066: Repeated exposure may cause skin dryness or cracking.
EUH208: Contains terpineol. May produce an allergic reaction.
H362: May cause harm to breast-fed children.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS09: Environmental

[cont...]
SAFETY DATA SHEET
RTD COMPOUND

Signal words: Warning

Precautionary statements:
P263: Avoid contact during pregnancy and while nursing.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P391: Collect spillage.
P501: Dispose of contents/container to local/national regulations.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:
C14-C17 CHLORINATED PARAFFIN - REACH registered number(s): 01-2119519269-33

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>287-477-0</td>
<td>85535-85-9</td>
<td>-</td>
<td>Lact.: H362; Aquatic Chronic 1: H410; Aquatic Acute 1: H400; - EUH066</td>
<td>50-70%</td>
</tr>
</tbody>
</table>

HIGHLY REFINED MINERAL OIL (NOTE L- LESS THAN 3% DMSO EXTRACT) - REACH registered number(s): 01-2119489287-22

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>265-160-8</td>
<td>64742-57-0</td>
<td>Substance with a Community workplace exposure limit.</td>
<td>-</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

TERPINEOL - REACH registered number(s): 01-2119553062-49 / 01-2119982324-34

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>232-268-1</td>
<td>8000-41-7</td>
<td>-</td>
<td>Flam. Liq. 3: H226; Skin Sens. 1B: H317; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Asp. Tox. 1: H304; Aquatic Chronic 2: H411</td>
<td>&lt;0.5%</td>
</tr>
</tbody>
</table>

Contains: Mineral oil contains <3% (w/w) DMSO extractable according to IP346

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.

[cont...]
### Section 4: Health information

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards:** In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

#### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

[cont...]
Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

C14-C17 CHLORINATED PARAFFIN

<table>
<thead>
<tr>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL</td>
<td>Inhalation (repeated dose)</td>
<td>6.7 mg/m3</td>
<td>Workers</td>
<td>-</td>
</tr>
<tr>
<td>DNEL</td>
<td>Dermal (repeated dose)</td>
<td>47.9 mg/kg bw/day</td>
<td>Workers</td>
<td>-</td>
</tr>
<tr>
<td>DNEL</td>
<td>Oral</td>
<td>0.58 mg/kg bw/day</td>
<td>Consumers</td>
<td>-</td>
</tr>
<tr>
<td>DNEL</td>
<td>Dermal</td>
<td>28.75 mg/kg bw/day</td>
<td>Consumers</td>
<td>-</td>
</tr>
<tr>
<td>DNEL</td>
<td>Inhalation</td>
<td>2.0 mg/m3</td>
<td>Consumers</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Fresh water</td>
<td>1 ug/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Marine water</td>
<td>0.2 ug/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Microorganisms in sewage treatment</td>
<td>80 mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Fresh water sediments</td>
<td>5 mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Marine sediments</td>
<td>1 mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PNEC</td>
<td>Soil (agricultural)</td>
<td>10.5 mg/kg Wet</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Brown

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: No data available.

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

[cont...]
SAFETY DATA SHEET
RTD COMPOUND

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

C14-C17 CHLORINATED PARAFFIN

<table>
<thead>
<tr>
<th>Route</th>
<th>Animal</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
</tr>
</tbody>
</table>

TERPINEOL

<table>
<thead>
<tr>
<th>Route</th>
<th>Animal</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DERMAL</td>
<td>RAT</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

- Skin contact: There may be mild irritation at the site of contact.
- Eye contact: There may be irritation and redness.

[cont...]

upper: No data available.

Flash point°C: >100

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: >200

Vapour pressure: No data available.

Relative density: 1.17

pH: No data available.

VOC g/l: 0
Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

Other information: May cause harm to breastfed babies.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

<table>
<thead>
<tr>
<th>Species</th>
<th>Test</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALGAE</td>
<td>96H ErC50</td>
<td>&gt;3.2</td>
<td>mg/l</td>
</tr>
<tr>
<td>FISH</td>
<td>96H LC50</td>
<td>&gt;5000</td>
<td>mg/l</td>
</tr>
<tr>
<td>Daphnia magna</td>
<td>48H EC50</td>
<td>0.006</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

Hazardous ingredients:

C14-C17 CHLORINATED PARAFFIN

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</tr>
<tr>
<td>FISH</td>
<td>96H LC50</td>
<td>&gt;5000</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: No data available

Waste code number: 12 01 99

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (C14-C17 CHLORINATED PARAFFIN)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.
Tunnel code: E
Transport category: 3

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: No data available.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Phrases used in s.2 and s.3:
EUH066: Repeated exposure may cause skin dryness or cracking.
EUH208: Contains terpineol. May produce an allergic reaction.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H362: May cause harm to breast-fed children.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.