### Physical Properties:

- **Specific Gravity:** 0.9 at 20°C
- **Vapor Pressure:** 496 Pa at 25°C
- **Melting Point:** -71°C at 1013 hPa
- **Viscosity:** 1.2 mPa.s at 20°C
- **Boiling Point:** 149.5°C at 1013 hPa

### Handling Temp Min-Max:

- Max: 32°C (90°F)

### Storage Temp Targets:

- Target: 20°C (68°F)

### Agitation/Recirculation:

- Yes, if heating medium > 100°C

### Max Steam, psi:

- 150

### Load out filter (reco):

- 5 micron

### Sensitive Properties:

- Color, Moisture, Acid Value

### Railcar or Tank Truck:

- Carbon Steel

### Storage Tank:

- Carbon Steel

### Pumps and Lines:

- Carbon Steel

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**CE-685, Methyl Caproate (Methyl Hexanoate)**

- **CAS/EC Number:** 106-70-7 / 203-425-1

- **Description:** Is predominately comprised of Methyl Hexanoate (C6, 85% min); ‘R’ in the structural diagram above represents a saturated alkyl chain of carbon atoms equal to 5. Not including the methyl ester group, there are an even number of carbon atoms in the molecule. It is water white a liquid under ambient conditions with a musty odor.

### Product Notes:

- Insoluble in water under ambient conditions, but suitable solvents include ethyl ether, and mineral oil. May attack, swell, and soften rubber and plastic. Concrete swells and deteriorates with contact. Glycerine can settle out in storage.

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### General Information

**Application Uses:**

Potential intermediate and end use applications include soapmaking, agriculture, amides, chlorinated lubricants, cutting oils, defoamers, gear oils, isopropyl esters, jet lubricants, methyl ester sulfonates, plasticizers, PEG Esters, rolling oils, sulfurized lubricants, metalworking fluids, production of plasticizer alcohols, emulsifiers, stabilizers, resins, flavorings, frack fluids, and solvents for inks, paint removal, and other applications.

**Oil Derivation/Allergen/BSE/Microbial:**

- All of our brands are produced in P&G Chemicals’ global network. They are manufactured from naturally occurring vegetable oils.
- Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE) are not a concern.
- No gluten/wheat, corn, dairy, egg, fish/shellfish, sulfites, yeast, starch, MSG, peanut, other nut, rice, potential allergens are present. No preservatives or additives are present.
- At the low vacuum and high temperature at which our process operates, our products are not micro-susceptible.

**Retest Date:**

Stability is affected by how a product is stored. We expect the product to be stable if it is kept under the recommended Storage and Handling conditions. We recommend retesting the product for Sensitive Properties every 24 months.

(Information listed in Storage and Handling section)

**P&G Chemicals Does Not Provide Shelf Lives or Expiry Dates.**

**Storage and Handling (Recommended)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling Temp Min-Max</td>
<td>Max: 32°C (90°F)</td>
</tr>
<tr>
<td>Agitation/Recirculation</td>
<td>Yes, if heating medium &gt; 100°C</td>
</tr>
<tr>
<td>Nitrogen Blanket</td>
<td>Not necessary</td>
</tr>
<tr>
<td>(≤1% O₂)</td>
<td></td>
</tr>
<tr>
<td>Storage Temp Targets</td>
<td>Target: 20°C (68°F)</td>
</tr>
<tr>
<td>Max Steam, psi</td>
<td>150</td>
</tr>
<tr>
<td>Load out filter (reco)</td>
<td>5 micron</td>
</tr>
<tr>
<td>Sensitive Properties</td>
<td>Color, Moisture, Acid Value</td>
</tr>
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<td>Railcar or Tank Truck</td>
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<tr>
<td>Pumps and Lines</td>
<td>Carbon Steel</td>
</tr>
</tbody>
</table>

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For further details, or samples of this material or other P&G Chemicals products, visit our website:

**www.pgchemicals.com**

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