Technical Data Sheet

CARBOWAX™ SENTRY™ Polyethylene Glycol (PEG) 1450

**Product**  
CARBOWAX™ SENTRY™ Polyethylene Glycol 1450 NF Flake (Inhibited)  
CARBOWAX™ SENTRY™ Polyethylene Glycol 1450 NF Molten (Inhibited)  
CARBOWAX™ SENTRY™ Polyethylene Glycol 1450 NF Molten (Uninhibited)

**Description**  
Polyethylene Glycol

**CAS Number**  
25322-68-3

**Applications**  
Adhesives  
Antistatic Agents  
Chemical Intermediates  
Creams and Lotions  
Excipients: Ointments, Lubricants  
Mold Release Agent  
Personal Care  
Toothpaste and Dental Products

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Waxy solid (Flake)</td>
</tr>
<tr>
<td>Average Number of Repeating Oxyethylene Units</td>
<td>32</td>
</tr>
<tr>
<td>Range of Average Molecular Weight</td>
<td>1305 – 1595</td>
</tr>
<tr>
<td>Range of Average Hydroxyl Number, mg KOH/g</td>
<td>70 – 86</td>
</tr>
<tr>
<td>Density, g/cm³ at 60°C</td>
<td>1.09</td>
</tr>
<tr>
<td>Melting or Freezing Range, °C</td>
<td>42 – 46</td>
</tr>
<tr>
<td>Solubility in Water at 20°C, % by weight</td>
<td>72</td>
</tr>
<tr>
<td>Viscosity at 100°C, cSt</td>
<td>26.5</td>
</tr>
<tr>
<td>Heat of Fusion, Cal/g</td>
<td>37</td>
</tr>
</tbody>
</table>

(1) Typical properties, not to be construed as specifications

**FDA Status**  
CARBOWAX™ Polyethylene Glycols are produced to meet the requirements for use under Food Additive Regulations for indirect use as components of articles intended for use in contact with food. It is the responsibility of the user of CARBOWAX™ PEGs and MPEGs to read and understand all current applicable FDA and EPA regulations, as well as any other applicable regulations.

**Product Stewardship**  
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Page 1 of 1