CARBOWAX™ and CARBOWAX SENTRY™ Polyethylene Glycol 8000

Product Description
CAS # 25322-68-3
CHEMICAL FAMILY—Oxyalkylene Polymer
CTFA NOMENCLATURE — PEG-150

Typical Physical Properties
Average Molecular Weight Range 7000 to 9000
Average Hydroxyl Number Range 16 to 13
Average Number of Repeating Oxyethylene Units 181.4
Density (g/cm³ @ 60°C) 1.0845
Melting or Freezing Range 60 to 63°C (140 to 144°F)
Solubility in Water (Wt% @ 20°C) 63
Viscosity (cSt @ 99°C) 822
Avg. Liquid Specific Heat (cal/g/°C) 0.55
Heat of Fusion (cal/g) 46
pH at 25°C (5% Aqueous Solution) 4.5 to 7.5

Shipping Information
Physical Form Granular or Powder
Bulk Density Granular 30 lbs/ft³
Bulk Density Powder 40 lbs/ft³
Flash Point Pensky-Martens closed cup (ASTM D93) >180°C (350°F)
Cleveland open cup (ASTM D92) >270°C (520°F)

Typical Known Applications for Polyethylene Glycol
• Adhesives
• Agriculture
• Ceramics
• Chemical Intermediates
• Cosmetics
• Toiletries
• Electroplating / Electropolishing
• Food Processing
• Household Products

• Lubricants
• Metal / Metal Fabrication
• Paints & Coatings
• Paper Industry
• Pharmaceuticals
• Printing
• Rubber & Elastomers
• Textiles
• Wood Processing
**FDA Status**

CARBOWAX SENTRY™ Polyethylene Glycols are produced to meet the requirements of the National Formulary (NF) monograph for drug applications and the Food Chemicals Codex (FCC) monograph for certain food and feed applications.

**Handling and Storage**

CARBOWAX™ Polyethylene Glycol 8000 is sold as a solid in bags or in fiber drums. The containers should be kept sealed and should not be stored next to steam lines or other heat sources that could cause the product to soften or melt. Recommended storage temperature is below 40°C (105°F).

**Product Stewardship**

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to use.

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