



## Lubrajel<sup>®</sup> PF

### **Description:**

Lubrajel PF is a sister product to Lubrajel CG and therefore has physical and cosmetic properties similar to Lubrajel CG. Lubrajel PF is a preservative free version of Lubrajel CG. This provides the formulator with a variety of options when creating their new products. The chemists can select their own preservative system or, if formulated appropriately, design preservative free products as well.

Lubrajel PF has been marketed to the cosmetic industry as a moisturizer, a water-soluble emollient, and for rheological modification. Lubrajel PF has a pH of approximately 5.0, and is ideal for sensitive skin products.

### **Uses:**

In cosmetics, Lubrajel PF is usually employed at concentrations between 5 and 50% depending on the degree of moisture balancing, rheological considerations and aesthetics desired in the product. The higher concentrations are necessary in formulas that are designed to be "preservative-free." Lubrajel PF is usually added post emulsion formation in creams and lotions. It is often added before the cool-down of hot emulsions. It may also be used to stabilize cold manufactured emulsions. A formulary is available upon request.

### **Nomenclature:**

CAS: 56-81-5, 9003-01-4

INCI: Glycerin and Glyceryl Acrylate/Acrylic Acid Copolymer

EINECS (Europe): 200-289-5, 201-177-9

DSL/NDSL (Canada): 1650, 8957

ENCS (Japan): JP 001341, JCIC 108622

AICS (Australia): All components comply

### **Typical Properties:**

These values are typical properties only and not necessarily specifications. Specifications and test methods are available upon request.

Form	Viscous Gel
Color	Colorless
Clarity	Clear

pH (20 – 25 °C, as is)	5.2
Viscosity as is (20 – 25 °C) (Brookfield DV-II, spindle 6, 2.5 rpm)	300,000
Refractive Index	1.420
Total Bacteria Count	≤ 100 cfu/gram
Yeast and Mold	≤ 100 cfu/gram
Pathogenic Organisms	
S. aureus	absent
E. coli	absent
P. aeruginosa	absent
Salmonella	absent

### **Testing:**

Lubrajel PF is characterized as having an excellent toxicological profile. Based on testing of a chemically similar product (Lubrajel CG), it should have an oral LD 50 greater than 5 grams per kilogram, is not irritating to the skin or eyes, and is not a sensitizer. A summary of safety tests performed using Lubrajel CG is available upon request.

### **Derivation:**

No animal derived ingredients are used in the manufacture of Lubrajel PF. All raw materials used in Lubrajel PF are of synthetic or vegetable origin.

### **Storage and Handling:**

Lubrajel PF should be stored in the original container at room temperatures of ≤ 35 °C. Lubrajel PF is very slippery and appropriate care should be taken during handling. Avoid contact with strong acids, alkalis or oxidizing agents.

Avoid exposure to x-rays.

### **Availability:**

Lubrajel PF is available in 50-pound pails and in 540-pound drums.

Contact Guardian Laboratories for information about samples or sales.