



## Lubrajel<sup>®</sup> MS-Free

### **Description:**

Lubrajel MS-Free was developed in order to fulfill the need for a paraben free version of Lubrajel MS. It utilizes a preservative system different from our other Lubrajels being that it is paraben free. Lubrajel MS-Free contains phenoxyethanol instead of parabens. Lubrajel MS-Free still has the same excellent moisturizing and rheological characteristics.

Although very similar in viscosity to Lubrajel CG, the MS-Free grade (as with regular Lubrajel MS) behaves differently upon dilution. This is mainly because of the differences in the moisture holding capacity of the clathrates. The viscosity vs. dilution curve for Lubrajel MS-Free indicates that the addition of water to the product results in smaller viscosity depression as compared to Lubrajel CG. This is especially noted when using concentrations between 10 and 20 percent Lubrajel.

### **Uses:**

Lubrajel MS-Free is especially suitable for use in creams, lotions, makeups, and other personal care and cosmetic products. Lubrajel MS-Free is usually used at concentrations between 10 and 20 percent for moisturization and at concentrations between 10 and 50 percent for rheological modification. A formulary is available upon request.

### **Nomenclature:**

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

Proposed 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	1.39

### **Testing:**

Lubrajel MS-Free 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 MS-Free. All raw materials used in Lubrajel MS-Free are of synthetic or vegetable origin.

### **Storage and Handling:**

Lubrajel MS-Free 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 MS-Free is available in 45-pound pails and in 500-pound drums.

Contact Guardian Laboratories for information about samples or sales.