



Lubrajel[®] MS

Description:

Lubrajel MS is a clathrate which contains a small amount of propylene glycol and methyl and propyl parabens. The clathrate holds water molecules and releases them when it is disrupted. Disruption occurs with the addition of ionic materials, acids or alkali. Normally, the salt content at the skin surface slowly disrupts the clathrate that in turn moisturizes the epidermal surfaces.

Although similar in viscosity to Lubrajel CG, the MS grade behaves differently upon dilution. This is mainly because of differences in the moisture holding capacity of the clathrates. The viscosity vs. dilution curve for Lubrajel MS 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 is especially suitable for use in creams, lotions, makeups and other personal care and cosmetic products. Lubrajel MS is usually used at concentrations between 10 and 20 percent for moisturization and at concentrations between 10 and 50 percent for rheological modification. A sample formulary is available upon request.

Nomenclature:

CAS: 56-81-5, 9003-01-4, 57-55-6
INCI: Glycerin and Glyceryl Acrylate/Acrylic Acid Copolymer and Propylene Glycol
EINECS (Europe): 200-289-5, 201-177-9, 200-338-0
DSL/NDSL (Canada): 1650, 8957, 1675
ENCS (Japan): JP 001341, JCIC 108622, JSCI 002328
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 cps
Refractive Index	1.390
% Methylparaben	0.11
% Propylparaben	0.03

Testing:

Lubrajel MS is characterized as having an excellent toxicological profile. Based on testing of a chemically similar product (Lubrajel CG), it is estimated to 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. All raw materials used in Lubrajel MS are of synthetic or vegetable origin.

Storage and Handling:

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

Contact Guardian Laboratories for information about samples or sales.