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TECHNICAL DATA SHEET

Silsurf® Sustain Di-1010

Polyether Silicone Copolymer

DESCRIPTION

Silsurf® Sustain Di-1010 is a 100% active silicone with polyether terminal groups. **Silsurf Sustain Di-1010** is self emulsifying in water and dispersible in many solvents. Relative to the standard, or "non-Sustain" version, the polyether portion of this product derived from biobased plant sources, rather than petroleum-based feedstocks. **Silsurf Sustain Di-1010** has an INCI name of PEG-10 Dimethicone.

TYPICAL PROPERTIES

Appearance	Hazy Liquid
Colour, (Gardner)	1
Specific Gravity, 25°C	1.04
Viscosity, cps	225
Water solubility	Dispersible
Pour Point	12°C
Flash Point	> 100°C
Refractive Index	1.441
Hydroxyl Value	70

USES AND APPLICATION

Silsurf Sustain Di-1010 is end-blocked with an active hydroxyl group that can be added to various organic systems to improve surface properties and provide conditioning in skin care. **Silsurf Sustain Di-1010** is ideal for foaming hydro-alcoholic hand sanitizers.

Molecularly, **Silsurf Sustain Di-1010** is approximately 60% by weight polyethylene oxide derived from sugar cane instead of petroleum. The remaining portion of the molecule is silicone which is primarily derived from minerals. The total biobased carbon content for the product has been measured at >66%, per ASTM D6866. The performance and functionality in personal care applications has been measured to be similar to standard PEG-10 Dimethicone.

Recommended use levels range from 0.05 - 3.0% by weight.

SAFETY

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

THIS MATERIAL IS NOT FOR MEDICAL OR DRUG USE.

STORAGE AND SHELF LIFE

When stored in the original, unopened containers between 15 and 40°C, **Silsurf Sustain Di-1010** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silsurf Sustain Di-1010 is available in 20kg and 200kg plastic containers.

LEGAL DISCLAIMER

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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