

**iSURF DG816**

**INCI Name (US):** DECYL GLUCOSIDE

**INCI Name (EU):** DECYL GLUCOSIDE

**CAS #:** 58846-77-8/68515-73-1/141464-42-8

**General Information/  
Characteristics:**

**iSURF DG816** is a nonionic Alkyl polyglucoside that are obtained from renewable, plant-derived raw materials such as vegetable oils and starch. Their first-rate environmental and skin compatibility profiles fit in well with consumer demands for wellness, green solutions, mildness to human skin, and safety for human health. Furthermore, they contribute to various performance benefits in personal and home care products as well as I&I applications.

**Benefits / Application:**

Benefits:

- It exhibits outstanding foaming behavior with dense and creamy foam bubbles
- **iSURF DG816** is compared to Ammonium Lauryl Sulfate which is on top of the irritation score, followed by Sodium Laureth Sulfate and Cocamidopropyl Betaine. Results out of this test showed that Decyl Glucoside has the lowest irritation potential of the surfactants tested. Similar results were obtained for ocular/mucous membrane irritation assessed using the red blood cell test (RBC): While Ammonium Lauryl Sulfate and Sodium Laureth Sulfate are irritating, Cocamidopropyl Betaine is moderately irritating and **iSurf DG816** is totally not irritating.
- Easy to use
- Good solubility
- Good alkali tolerance
- Good electrolyte tolerance
- Good compatibility with other components
- Outstanding mildness
- Good foaming behavior
- Ideal for sensitive skin
- Exceptional ecological and toxicological properties for a surfactant

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**Application:**

- Hand wash
- Facial cleanser
- Body wash
- Shampoo
- laundry detergent
- Industry detergent

**Formulations Advices:** Dosage: 5-20%

**Regulatory Status:** No specific regulation

<b>Physic-Chemical Properties:</b>	Aspect	Water clear to pale yellow viscous liquid
	pH (10% aq. soln)	11.0 - 12.5
	Solid Content	Min. 50%
	Residual alcohol	Max. 1.0

**Shelf Life / Storage Conditions** 24 months if stored. Keep in cool, Dry, Ventilated and Lightless Place.

**Packaging:** 125kg/drum

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