

# Product Technical Information Sheet

PTIS-T36302 Rev.2  
October 2014



## TI-GrnSurf<sup>®</sup> LCI

### IDENTIFICATION

**Description:** TI-GrnSurf<sup>®</sup> LCI is a specialty sulphate-free system comprised of a unique blend of anionic and amphoteric surfactants.

**CAS Reg. No.:** 7732-18-5, 39354-45-5, 61789-32-0, 68424-94-2, 1847-58-1

**Adopted INCI Name:** Water (Aqua) , disodium laureth sulfosuccinate, coco-betaine, sodium cocoyl isethionate, sodium lauryl sulfoacetate

### TYPICAL PROPERTIES (NOT A SPECIFICATION)

**Appearance at 25 °C:** Clear, colourless to very light amber, viscous liquid..

<b>pH (10% Solution):</b> .....	6.5	<b>Solids (%):</b> .....	34.5
<b>Colour (Gardner):</b> .....	<1	<b>Sodium chloride (%):</b> .....	6.5 max
<b>Viscosity at 25 °C:</b> .....	15,000 cps		

### KEY FEATURES AND BENEFITS

- ✓ Does not contain alkyl or alky ether sulphates.
- ✓ Produces rich stable "lather type" foam.
- ✓ Good foaming performance in hard water.
- ✓ Exhibits good wetting & emulsification properties.
- ✓ Compatible with natural soaps.
- ✓ Material can be formulated via cold process.
- ✓ Provides very mild cleansing
- ✓ Naturally derived ingredients.
- ✓ Biodegradable.

### GENERAL USES AND APPLICATION AREAS

TI-GrnSurf<sup>®</sup> LCI is a unique synergistic mixture of mild secondary surfactants, designed to achieve primary surfactant performance. It has good cleansing and emulsification properties, and is able to provide a rich stable "lather type" creamy foam. TI-GrnSurf<sup>®</sup> LCI is ideal for use in mild cleansing applications such as shampoos, bubble baths, hand soaps, and other mild personal care products. Its mildness helps contribute to colour retention in shampoos for treated hair.

TI-GrnSurf<sup>®</sup> LCI is ideally suited for personal care products with pH's in the range of 4.5 to 6.5. It has excellent compatibility with a variety of other surfactants, including alkyl poly glucosides and natural soaps. TI-GrnSurf<sup>®</sup> LCI is especially suited for use in combination with TI-NatSurf<sup>®</sup> BW in a ratio of 4:1 on an ASIS bases, in addition it can be used in combination with other non-ionics or amphoteric, typically in a ration of 5-6:1 (TI-GrnSurf<sup>®</sup> LCI :amphoteric/nonionic).

**STORAGE, HANDLING, & PACKAGING**

It is recommended that TI-GrnSurf® LCI be stored in sealed containers and kept at temperatures between 15°C and 40°C. Always avoid freezing or overheating. Should the material become frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use. TI-GrnSurf® LCI is stable through three(3) freeze-thaw cycles and at elevated temperature (42 °C) for six(6) weeks.

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling TI-GrnSurf® LCI. Contact with eyes and prolonged contact with skin should be avoided. Wash thoroughly after handling the material.

The TI-GrnSurf® LCI is a Made-To-Order product available in 20 kg pails, 200 kg drums or 1,000 kg totes.

