

Product Fact Sheet

GLUCOTAIN® PLUS



Mild, nonionic surfactant with excellent foaming and solubilizing properties for the cosmetic industry

Composition	N-C8/10/12/14-acyl-N-methyl-glucamin
INCI Name:	Capryloyl/Caproyl Methyl Glucamide (and) Lauroyl/Myristoyl Methyl Glucamide

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

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Product properties ¹

Appearance (20 °C)	Yellowish liquid
Gardner colour	max. 5
Active substance	Approx. 50 %
Viscosity at 20°C	approx. 700 mPa*s
Density at 20°C	1,064 g/cm ³
pH (10 % t. q. aqueous solution)	8.5 - 9.5
Melting point	Approx. 18°C
Propylene Glycol	Approx. 5 %
HLB (Griffin)	Approx. 12

Manufacture

Reaction of N-Methyl Glucamine with C8/10 Fatty Acid Methylester and C12/14 Fatty Acid Methylesters

Profile

Glucotain® Plus is a mild surfactant with a excellent cleansing and wetting ability.

When used as a surfactant it is especially suitable for formulations featuring light and abundant foam such as refreshing, vitalizing showers, hand washes, men showers and 2-in-1 shower & hair products.

Glucotain® Plus shows superior flash foam compared to other nonionic and amphoteric surfactants and is therefore especially suitable as primary surfactant in systems without anionic surfactant or sulfate free formulations with reduced anionic surfactant content. It can also be added as foam booster to standard formulations at level of 0.5 % active and above.

¹ These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

In presence of Silicone oils it shows superior foam compared to standard systems based on Cocamidoproylbetaine.

GlucoTain® Plus is also an excellent non-EO solubilizer.

Mildness

GlucoTain® surfactants are amongst the mildest surfactants in the market. They are extremely mild to both skin proteins and skin lipids and are therefore very useful for formulations with mildness claims and for sensitive skin and hair.

Compatibility

GlucoTain® Plus is miscible with all types of surfactants (anionic, non-ionic, cationic and amphoteric).

Shampoos, shower gels and liquid soaps with very good skin tolerability can be produced by combining GlucoTain® Plus with primary foamers like Sodium Lauryl Sulfate, Sodium Laureth Sulfate, Sodium Cocoyl Isethionate or Sodium Cocoyl Methyl Taurate.

Formulations with GlucoTain® Plus can be thickened with salt and all types of natural and synthetic polymers.

GlucoTain® Plus is especially suitable for formulations with Sodium Lauryl Sulfate or Ammonium Lauryl Sulfate as primary surfactant, as it improves the cold cloud point of these formulations and at the same times improves foam.

Solublizing properties

GlucoTain® Plus is an excellent non-EO solubilizer. Especially for terpenoides and preservative actives it shows better results than other non-EO solubilizers.

Use Level

A use level of 0.6 % to 6 % as solubilizer (0.3 to 3 % active) and performance enhancer is recommended. Foam boosting is achieved already with levels of 0.5 – 1.0 % active surfactant.

Formulation advice

GlucoTain® Plus can be added to any step of the process.

Storage and Shelf Life

GlucoTain® Plus can be stored at room temperature.

The shelf life is at least two years when stored in tightly closed containers at room temperature in a clear and aerated place. After this period the product should be analysed for extension of the shelf life.

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Preservation

No preservative is added to GlucoTain® Plus as it is self preserving.

Safety

Please see the Material Safety Data Sheet before handling the material.

Packaging

Roadtanker, 1000 L IBC, 200 L polyethylene drums

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