

Product Fact Sheet

HOSTAGEL[®] LT



Liquid thickener for surfactant based systems

Composition	Stearate ester of ethoxylated Polyglycerol, ethoxylated Fatty Alcohol, Dipropylene Glycol
Product properties *)	
Appearance (20 °C)	Colorless to slightly yellow liquid
pH value (as is)	5.0 – 7.5
Iodine color number	Max. 3.5

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 MuttENZ
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Application properties

Hostagel LT is a hydrophilic / hydrophobic thickener combination composed of stearate ester of highly ethoxylated Polyglycerol and an ethoxylated fatty alcohol. It is an easy-to-use liquid and suitable for cold process which allows thickening without negative impact on the foaming power of the surfactants.

Hostagel LT is an effective thickener for many Home Care applications like Hand dishwashing liquids, light duty liquids or pretreaters. It is especially suitable for hard-to-thicken surfactant formulations, e.g. if sodium chloride is not effective.

Hostagel LT imparts the following benefits:

- More effective thickening
- Liquid
- Easy to use and handle
- No heating required, suitable for cold process
- No preservatives added
- No impact on foaming properties

The hydrophilic thickener comprises a water soluble backbone with several hydrophobic arms which can physically crosslink micelles. In most surfactant systems, it shows a steady decrease of viscosity with temperature without a break-down at low temperatures.

The hydrophobic thickener is a low HLB surfactant that can promote the formation of rod like micelles either by itself or in combination with sodium chloride. The viscosity of such formulations can break down at lower temperatures, so that there is an anomalous region in which viscosity increases strongly with temperature.

Combining both types of thickener enables formulators to minimize temperature effects on viscosity. By using **Hostagel LT**, the viscosity at both low (i.e. 0°C) and high temperature (i.e. 40°C) can be leveled off, resulting in improved storage stability of corresponding formulations.

Handling advice

Hostagel LT is an effective thickener for aqueous solutions, but is not soluble in water in all proportions. If mixed with surfactants, the thickener is dissolved and the rheology can be adjusted to the desired viscosity of the final product. Typically, Hostagel LT is added as the last component of the formulation.

Hostagel LT is suitable for cold process; however the dissolution time can be shortened by heating to 40 – 50°C. It is best used at a pH between 5.0 and 8.5.

Storage

Hostagel LT is stable for at least one year at room temperature in its original unopened containers.

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 MuttENZ
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Application example

HDWL Formula	% w/w (a.i.)	% w/w (a.i.)
SLES	5.0	5.0
AOS	5.0	5.0
CAB	3.0	3.5
Genapol XS 088	1.0	1.0
Water	Ad 100	Ad 100
NaCl	0.0 – 2.0	1.0
Hostagel® LT	–	0.0 – 1.4*

* tel quel

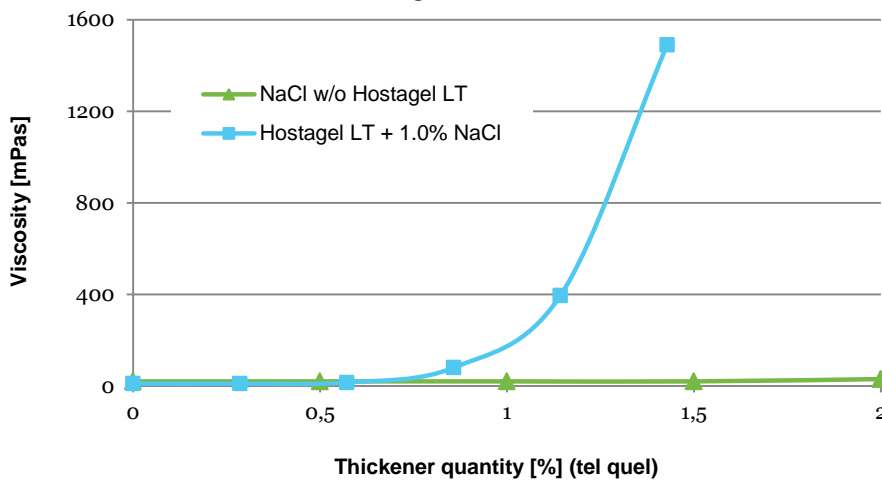
CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 MuttENZ
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Thickening with sodium chloride vs.
Hostagel® LT/sodium chloride



This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. * Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

For sales to customers located within the United States and Canada the following applies in addition:

NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

®Trademark of Clariant registered in many countries

© 2012 Clariant International Ltd



CLARIANT INTERNATIONAL LTD