

Berol LFG 61

Low Foaming Nonionic Surfactant with Defoaming Properties, for Recirculating Cleaning Processes

The new environmentally adapted low foaming surfactant

Berol LFG 61 is a very low foaming blend of alkylglucoside and alcohol ethoxylate.

Berol LFG 61 has both wetting and defoaming properties in high caustic on protein foam. This property makes Berol LFG 61 suitable for use in re-circulating cleaning processes within the food industry.

The solubility of Berol LFG 61 in water increases with increased concentration of electrolytes. Berol LFG 61 is soluble in 40% NaOH if the surfactant concentration is >1%.

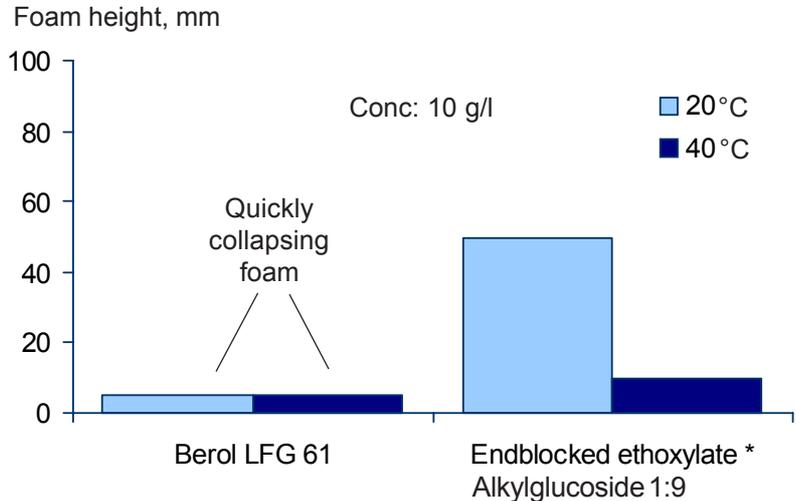
If some complexing agents also are required, the concentration of Berol LFG 61 has to be increased. Sodium phosphonate and sodium gluconate are easiest to solubilize in high caustic. Na_3NTA and Na_4EDTA are also possible to use, but the amount of Berol LFG 61 has then to be further increased. Tetrapotassium pyrophosphate is not possible to solubilize together with high concentrations of NaOH.

In recirculating cleaning processes, such as CIP (Cleaning In Place), machine dishwashing and rinse aids, the defoaming properties are very important. Today endblocked alcohol ethoxylates have replaced the old block polymers as defoaming agents and most of these products do not fulfil the environmental demands of today. Berol LFG 61 is readily biodegradable.

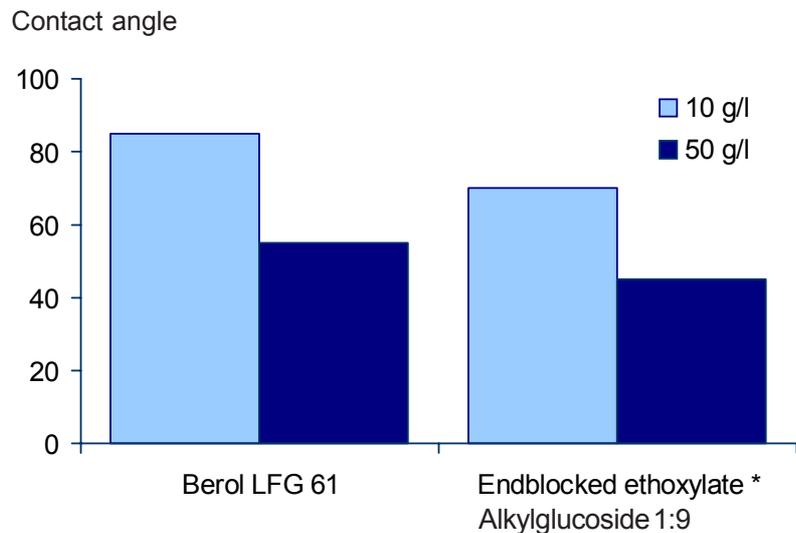
Berol LFG 61 does not need any other surfactant to be solubilized into high electrolytes.

Berol LFG 61 can also be used in weak/strong acid cleaning products, when low foam is required.

Foaming in "Vindan"



Wetting on Parafilm



Formulation:
2% Surfactant
40% NaOH
rest Water

* separates

Applications

- CIP
- Brewery and dairy cleaning
- Machine dishwashing
- Rinse aid for machine dishwashing

Formulations

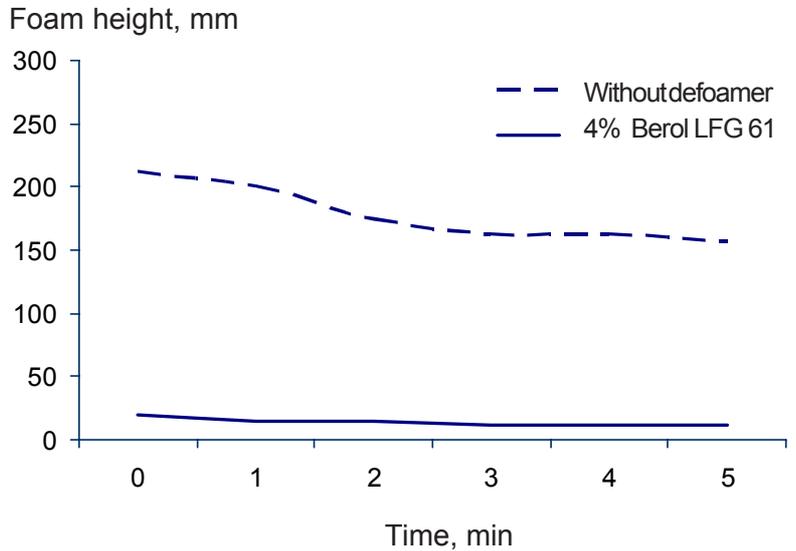
Rinse aid for machine dishwashing

15% Berol LFG 61
 10% Ethanol/IPA
 10% Citric acid monohydrate
 rest Water

Acid cleaner without foam

4% Berol LFG 61
 20% Phosphoric, Citric or Hydrochloric acid
 rest Water

Defoaming of protein foam - Circulation method



Conditions

Conc: 10 g/l
 Temp: 20°C
 Protein load: 0.33 g/l albumine

Formulation:

X% Surfactant
 20% NaOH
 5% Na₃NTA
 rest Water

High alkaline defoaming cleaning products

	A %	B %	C %	D %	E %	F %
Berol LFG 61	>1	>2	>2	>4	>3	>6
NaOH (99%)	40	40	30	20	20	10
Na ₃ NTA (92%)	-	-	-	5	-	5
Sodium gluconate	-	3	4	-	5	-
Water	<59	<55	<64	<71	<72	<79
pH (10% solution)	~13	~13	~13	~13	~13	~13

The formulations recommended in the brochure are to be seen as guidelines. Akzo Nobel strongly recommends the customer to check fitness for purpose in each individual case.

For additional information and assistance,
please contact your local Akzo Nobel Sales Representative
or consult our website at

www.surfactants.akzonobel.com

