Technical Information

May 2016
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Glucopon® 600 CSUP

® = Registered trademark of BASF in many countries.

Nonionic surfactant for detergents and cleaners industry.

BASF
We create chemistry

Chemical character

Aqueous solution of alkyl polyglucosides based on natural, plant origin fatty alcohol C_{10}-C_{16}, free of preservatives.

PRD-No.*

30530876

* BASF's commercial product numbers.

Appearance

Glucopon® 600 CSUP is a yellow, cloudy and viscous liquid at room temperature and tends to form sediment below 30 °C.

Handling and Storage

Handling

a) The storage temperature of Glucopon® 600 CSUP should not be allowed to exceed 50° C.
b) Liquid that has solidified or that shows signs of sedimentation should be heated to max. 70 °C and homogenized before it is processed. Please mix sufficiently prior to use.
c) Drums that have solidified or that have begun to precipitate should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed 60 °C (short time 70 °C). Please mix sufficiently prior to use. This also applies if drums are heated by external electrical elements. Internal electrical elements should not be used because of the localized anomalies in temperature that they cause.
d) Glucopon® 600 CSUP must be blanketed with nitrogen if it is stored in heated tanks at approx. 50 °C to prevent it from coming into contact with air. Constant, gentle stirring helps to prevent it being discolored or damaged as a result of prolonged contact with electrical elements or external heating coils.
e) Please refer to the latest Safety Data Sheet for detailed information on product safety.

Materials

The following materials can be used for tanks and drums.
AISI 321 stainless steel (1.4541 resp. X6CrNiTi1810)
AISI 316 Ti stainless steel (1.4571 resp. X6CrNiMoTi17122)

- Seals have to be stable against aqeous alkali (e.g. Teflon, Teflon coated seals; Klingerit K-Sil C 4500)
- Recommended as feed pumps: Screw rod pumps or rotary piston pumps

Shelf life

Provided it is stored properly and drums are kept tightly sealed, Glucopon® 600 CSUP has a shelf life of at least two years in its original packaging.

Properties

Some physical properties are listed in the table below. These are typical values only and not all of them are monitored on a regular basis. They are correct at the time of publication and do not necessarily form part of the product specification. A detailed product specification is available on request or via BASF's WorldAccount: https://worldaccount.basf.com (registered access).

Glucopon® 600 CSUP	**Unit**	**Value**
Physical form (23 °C)		liquid
Active matter (100%-water content)	%	approx. 53
Water content (EN 13267)	%	approx. 47
pH value (EN 1262, 20% in 15% IPA)		approx. 12
Density (DIN 51757, 40 °C)	g/cm^3	approx. 1.08
Pour Point (ISO 3016)	°C	approx. 5
Surface tension (EN 14370, 1 g/L in distilled water, 23 °C)*	mN/m	approx. 28
Wetting (EN 1772, distilled water, 23 °C, 2 g Soda ash/l)		
0.5 g/L	s	>300
1.0 g/L	s	approx. 100
2.0 g/L	s	approx. 45
Foam volume (EN 12728, pg. 1, 40 °C, 2 g/L water at hardness of 1.8 mmol Ca- ions/l, after 30 s)	cm^3	approx. 250

* *Applying Harkins-Jordan correction*

Solubility

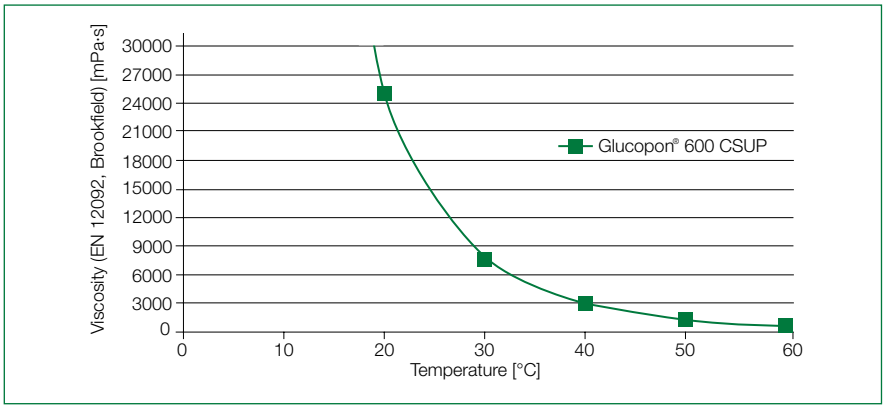
Details on the solubility of Glucopon® 600 CSUP in various solvents are given in the table below (Solubility 10% at 23 °C).

	Glucopon® 600 CSUP
Distilled water	○
Potable water (2.7 mmol Ca^{2+}-Ions/l)	○
Caustic soda (5%)	○
Hydrochloric acid (5%)	–
Salt solution (5%)	–
Solvent naphtha	–
Ethanol, Isopropanol	–
Aromatic hydrocarbons	–

\+ = *clear solution*
± = *sparingly soluble (insoluble sediment)*
– = *insoluble (phase separation)*
○ = *forms an opaque soluble, homogeneous emulsion*

Viscosity

The relationship between viscosity and temperature is always an important point to consider when Glucopon® 600 CSUP is stored or shipped. This is shown in the following grafic (mPa·s, Brookfield LVT):



Viscosity of Glucopon® 600 CSUP after addition of water (23 °C, Brookfield LVT)

Water addition (%)	Viscosity (mPa·s)
+10	15000
+20	13000
+30	12000
+40	10000
+50	8500
+60	5000
+70	3500
+80	1500
+90	250

Safety

We know of no ill effects that could have resulted from using Glucopon® 600 CSUP for the purpose for which it is intended and from processing it in accordance with current practices.

According to the experience that we have gained over many years and other information at our disposal, Glucopon® 600 CSUP does not exert harmful effects on health, provided it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our Safety Data Sheets are observed.

Labelling

Please consult the current Safety Data Sheets for information on the classification and labelling of our products and other information relevant to safety.

Note

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