Technical Information

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Supersedes issue dated February 2017

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Last change WF-No. 12034

Disponil® LDBS 25

® = Registered trademark of BASF in many countries.

Sodium-n-alkyl-($C_{10}$$C_{13}$)-benzene sulfonate as basic-emulsifier in emulsion polymerization.

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Chemical nature

Disponil® LDBS 25 is a sodium salt of a linear $C_{10}C_{13}$-alkyl benzene sulfonate.

The general formula is described as follows:

$$R\text{-}(C_6H_4)SO_3Na$$

$R = C_{10}C_{13}$

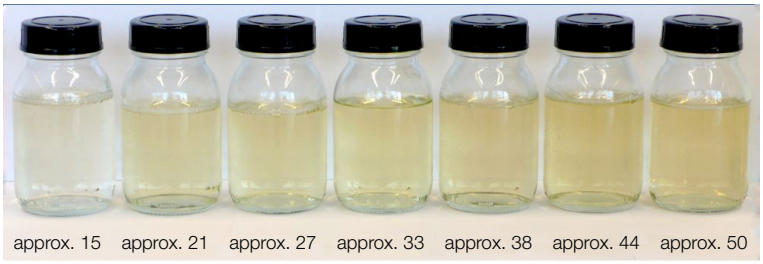
PRD-No.*

30531358

* BASF's commercial product numbers.

Appearance

Disponil® LDBS 25 is a yellowish liquid.



Data: Internal method 96002001 (KLETT, 5% active substance);
Image: undiluted product (25% active substance), 125 ml wide-necked Bottle.

Handling and Storage

Handling

a) The product should be stored in a dry place at max. 40 °C.

b) At temperatures <15 °C the product may separate or become solid and is not pumpable anymore. The product is not damaged by frost, but should be homogenized prior to use.

c) Product that has solidified or that shows signs of sedimentation should be heated to 40 °C and homogenized before it is processed. Please mix sufficiently prior to use.

d) 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 40 °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.

e) If the product is stored in heated tanks, constant, gentle stirring helps to prevent local overheating caused by prolonged contact with electrical elements or external heating coils.

f) Please refer to the latest Safety Data Sheet for detailed information on product safety.

Materials

Disponil® LDBS 25 should be stored in tanks made from the following materials.
a) HDPE
b) Stainless steel 1.4401
c) Stainless steel 1.4541
d) Stainless steel 1.4571

Shelf life

Disponil® LDBS 25 contains methylisothiazolinone (~ 75 ppm MIT) and benzisothiazolinone (~ 150 ppm BIT). Disponil® LDBS 25 has a shelf life of at least 12 months in its original packaging, provided it is stored properly.

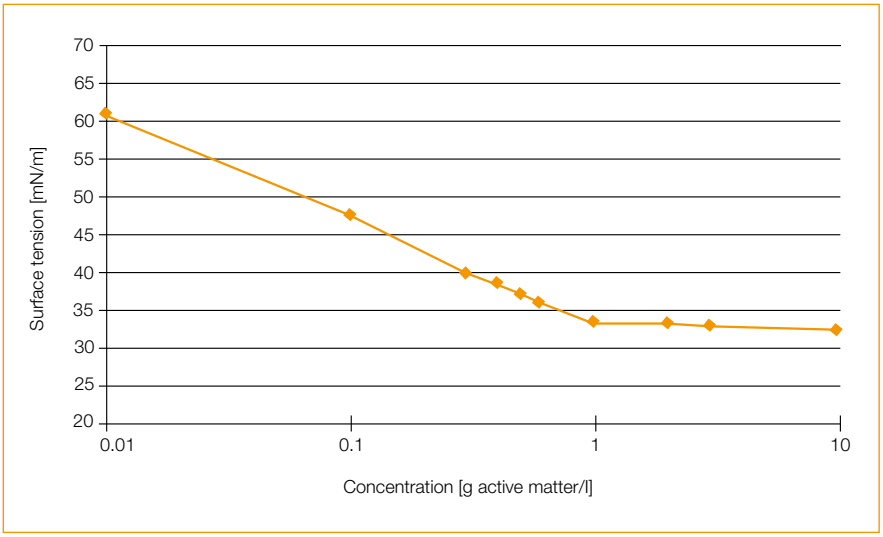
Properties

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).

Disponil® LDBS 25	Unit	Value
Anionic surfactant (DIN ISO 2271, MW 342)	%	~25
Physical form (23 °C)		liquid
pH value (EN 1262, 10%)		~7.5
Sodium sulfate (DGF H-III 8A)	%	~0.3

Critical micell concentration

The following diagram shows the surface tension as a function of the concentration of the surface-active agent.
At concentrations below the CMC the surface tension is constantly reduced by an increase of the surfactant concentration. When reaching or exceeding the CMC, the surface tension stays almost constant.
Thus the CMC can be expressed as the intersection of the regression lines.



Solubility

Due to its anionic structure, Disponil® LDBS 25 is readily soluble in demineralized water.

Safety

We are not aware of any ill effect that can result from using Disponil® LDBS 25 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, Disponil® LDBS 25 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.

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