

Technical Information

June 2014

Supersedes issue dated October 2013

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Last change WF-No. 4203

Disponil[®] LDBS alkyl benzene sulfonates

® = Registered trademark of BASF

Disponil[®] LDBS 20

Disponil[®] LDBS 25

Disponil[®] LDBS 30 E

Disponil[®] LDBS 55

Sodium-n-alkyl-(C₁₀,C₁₃)-benzene sulfonates as basic-emulsifier in emulsion polymerization

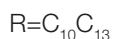


The Chemical Company

Chemical nature

The Disponil® LDBS types are sodium salts of linear C₁₀-C₁₃-alkyl benzene sulfonates with differing concentrations.

The general formula is described as follows:



PRD-Nos.*

30532581	Disponil® LDBS 20
30531358	Disponil® LDBS 25
30598301	Disponil® LDBS 30 E
30529369	Disponil® LDBS 55

* BASF's commercial product numbers.

Properties

The Disponil® LDBS types are yellowish liquids/pastes.

Disponil®	Unit	LDBS 20	LDBS 25	LDBS 30 E	LDBS 55
Anionic surfactant (DIN ISO 2271, MW 342)	%	~20	~25	~30	~55
Physical form (23 °C)		liquid	liquid	liquid	pasty
pH-value (EN 1262)		~7*	~7.5**	~7**	~9.5**
Sodium sulfate (DGF H-III 8A)	%	~0.2	~0.3	~0.4	~0.5

* pH-value, undiluted (DIN 19268)

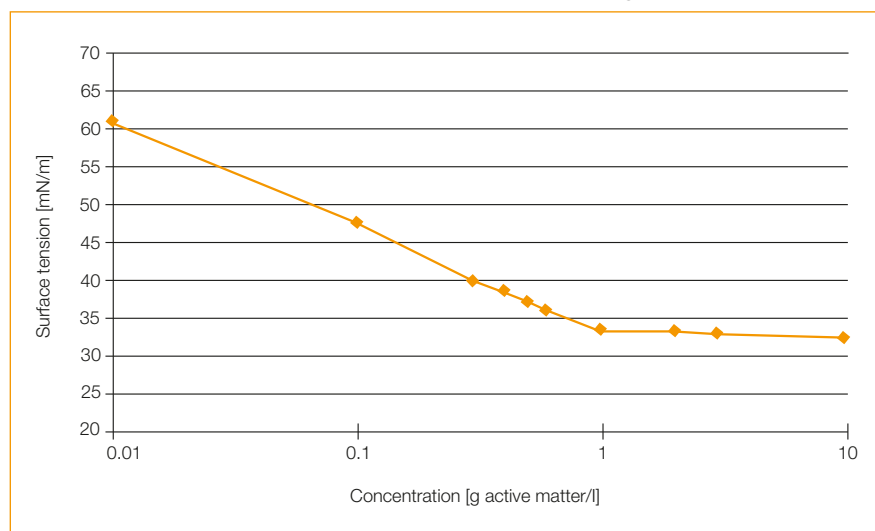
** concentration: LDBS 25: 10%ic, LDBS 30: 5%ic, LDBS 55: 3%ic

The information above is valid on the date of printing. Not all of these are part of the certificate of analysis.

The specified criteria are mentioned in the product specification which is available via your local BASF representative.

CMC

The following diagram shows the reduction of the surface tension as a function of the concentration of active ingredient per liter solution at 25 °C. The curve's vertex is the critical micelle concentration at approx. 1.0 g active per liter.



Solubility	Due to their anionic structure, the Disponil® LDBS types are readily soluble in demineralized water.
Storage	<ol style="list-style-type: none">The products should be stored in a dry place at max. 40°C (LDBS 55 max. 60°C)The storage temperature should not be allowed to fall substantially below 20°C. The congealing points need to be taken into account.Disponil® LDBS 55 is a high viscous paste and tends to separate.Product that has solidified or that shows signs of sedimentation should be heated to 40 °C (LDBS 55 60 °C) and homogenized before it is processed. Please mix sufficiently prior to use.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 (LDBS 55 60°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.If the products are stored in heated tanks (at 40°C, LDBS 55 60°C) constant, gentle stirring helps to prevent local overheating of prolonged contact with electrical elements or external heating coils.
Materials	The following materials may be used for the storage of the Disponil® LDBS types: - V4A-steel (1.4571) - HDPE
Shelf life	The products Disponil® LDBS 20, -LDBS 25 and -LDBS 30 E contain methylisothiazolinone (MIT) and benzisothiazolinone (BIT). All of the LDBS types have a shelf life of at least 12 months, provided they are stored properly and drums are kept tightly sealed.
Safety	<p>We know of no ill effects that could have resulted from using Disponil® LDBS types for the purpose for which it is intended and from processing it in accordance with current practice.</p> <p>According to the experience we have gained over many years and other information at our disposal, Disponil® LDBS types does not exert any harmful effects on health, provided that 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.</p>
Labelling	Please refer to the latest safety data sheets for detailed, up-to-date information on classification, labelling and product safety.
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