

Technical Information

October 2016

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WF-No. 10095

® = Registered trademark of BASF
in many countries.

Disponil® FEP 3825 PN

Phosphoric acid ester for use in the chemical-technical industry and emulsion polymerization.

Chemical nature

Disponil® FEP 3825 PN is an aqueous tridecyl alcohol ether phosphate, potassium salt.

PRD-No.*

30666595

* BASF's commercial product numbers.

Apperance

Disponil® FEP 3825 PN is a water white to yellowish liquid.

Handling and Storage**Handling**

- a) The product should be stored in a dry place at max. 50 °C.
- b) At temperatures < 10 °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 max. 50 °C and homogenized before it is processed: Please mix sufficiently prior to use.
- d) Packed material that has solidified or that has begun to precipitate should be reconstituted by gentle heating, preferably in a heating cabinet. The product must not be allowed to exceed 50 °C. Please mix sufficiently prior to use. This also applies if packages are heated by external electrical elements. Internal electrical elements should not be used, due to risk of local overheating.
- 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

The following materials can be used for tanks and drums:

- a) HDPE
- b) Stainless steel 1.4401 – AISI 316 stainless steel (X5 CrNiMoTi 17122)
- c) Stainless steel 1.4541 – AISI 321 stainless steel (X6 CrNiTi 1810)
- d) Stainless steel 1.4571 – AISI 316 Ti stainless steel (X6 CrNiMoTi 17122)

Shelf life

Disponil® FEP 3825 PN contains methylisothiazolinone (MIT, approx. 75 ppm) and benzisothiazolinone (BIT, approx. 150 ppm) and has a shelf life of 12 months provided it is stored properly and drums are kept tightly sealed.

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® FEP 3825 PN	Unit	Value
Physical form (23 °C)		liquid
Density (DIN 51757) 23 °C 40 °C	g/cm ³ g/cm ³	approx. 1.036 approx. 1.027
pH value (EN 1262, solution B)		approx. 7
Viscosity EN 12092 20 °C, Sp. 31, 30 rpm 50 °C, Sp. 31, 60 rpm	mPa·s mPa·s	approx. 560 approx. 120
Pour point (ISO 3016)	°C	approx. 0

Solubility

Disponil® FEP 3825 PN is readily soluble in water.

Application

Disponil® FEP 3825 PN can be used in technical cleaning and emulsification processes as well as emulsifier for emulsion polymerization. In emulsion polymerization Disponil® FEP 3825 PN has – compared to standard anionic emulsifiers – special benefits in corrosion protection on metal surfaces and pigment dispersion.

Safety

We are not aware of any ill effect that can result from using Disponil® FEP 3825 PN 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® FEP 3825 PN 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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