

Product Fact Sheet



GENAPOL[®] PF 40

Low-foaming, nonionic surfactant for the chemical industry

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COMPOSITION

Block copolymer of propylene oxide and ethylene oxide, containing 40% w/w ethylene oxide

PRODUCT PROPERTIES^{*)}

Molecular weight	About 2800 g/mol	
Active substance content	about 100 %	
Appearance at 20°C	Cloudy, colorless solution	
Ionicity	Nonionic	
Density at 20°C (DIN 51757)	About 1,05 g/cm ³	
Viscosity at 50°C (DIN 53015)	About 200 mPas	
pH of a 1% aqueous solution	About 7	
Solubility at 20°C	1% in water 10% in mineral oil 10% in xylene	clear solution cloudy solution opal solution
Pour point (DIN/ISO 3016)	About 14°C	
Flash point (DIN/ISO 2592)	> 250°C	
Cloud point (DIN 53917)	About 67°C (5g in 25ml 25% BDG solution)	
HLB value	About 8	
Compatibility	Genapol PF 40 can be used in combination with other nonionic, anionic and cationic surfactants. Genapol PF 40 is resistant to water hardness salts and to acids and alkalis in the concentrations normally used. Preliminary tests are required.	
FDA / BfR** Listing	FDA Chapter 21, § 176.200, §176.210, § 181.30 BfR Teil A XIV, XXXIV	

^{*)} These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

^{**)} Bundesinstitut für Risikobewertung (formerly BgVV)

USE

Genapol PF 40 has good wetting and dispersing action coupled with low foaming tendency.

Genapol PF 40 is used in several applications and industries:

DETERGENTS

As a low-foaming surfactant with very good dispersing action Genapol PF 40 is used in detergents and cleaning agents. Typical applications include rinsing aids, detergents for dishwashers and bottle-rinsing machines and industrial cleaning formulations.

EMULSION POLYMERIZATION

Genapol PF 40 is also used as a low-foaming emulsifier in emulsion polymerization to improve the latex stability. Genapol PF 40 improves the freeze-thaw stability, electrolyte and shear stability of polymer dispersions. Dosages are between 1 – 3% on monomers.

PIGMENT PREPARATIONS AND DISPERSIONS

Genapol PF 40 is used as wetting and dispersing agent for pigment pastes and preparations. In combination with polyacrylates Genapol PF 40 improves the wetting of hydrophobic pigments like talc, prevents the sedimentation and thixotropy of pigment dispersions. Depending on the particle size of the pigments Genapol PF 40 is added at dosages of 0,5 – 3% to the dispersion

SILICONE EMULSIONS

Genapol PF 40 is used as emulsifier for silicon emulsions used e.g. as silicone based foam control agents.

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