

Product Fact Sheet



EMULSOGEN[®] APS 100

Copolymerizable anionic emulsifier and hydrophilic monomer for emulsion polymerization

CLARIANT INTERNATIONAL LTD

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BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

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COMPOSITION

Allyl polyalkylene glycol ether sulfate, ammonium salt

PRODUCT PROPERTIES^{*)}

Active substance content	about 100%
Appearance	
at 0°C	yellow solid
at 5°C	yellow gel
at 10°C	yellow liquid
at 25°C	cloudy yellowish liquid
Density at 25°C (DIN 51757)	about 1.12 g/cm ³
Viscosity (Brookfield, spindle 4, 25°C)	about 3000 mPas
Flash point (DIN/ISO 2592)	> 100°C
pH of a 1% aqueous solution	about 6 – 8
Solubility in water	Emulsogen APS 100 is soluble in water in any ratio to produce a clear solution

^{*)} 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.

USE

Emulsogen APS 100 is used as emulsifier and comonomer in emulsion polymerization, particularly in the manufacture of acrylate, styrene/acrylate and vinyl acetate emulsions. Emulsogen APS 100 is added to the monomer emulsion and the initial bath at the following concentrations:

- 1 - 3 % based on monomers in the monomer emulsion
- 1 - 2 % based on monomers in the initial bath

The advantages of Emulsogen APS 100 in comparison to conventional emulsifiers are

- the ability of copolymerisation to reduce migration
 - improved freeze- thaw, electrolyte and shear stability of the polymer emulsion and
 - reduced water sensitivity and water up-take of the polymer film.
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