

Product Fact Sheet



EMULSOGEN[®] LCN 287

Nonionic emulsifier for industrial applications

CLARIANT INTERNATIONAL LTD

COMPOSITION

Alkyl polyethylene glycol ether with 28 mole ethylene oxide

Rothausstrasse 61
4132 Muttenz
Switzerland

PRODUCT PROPERTIES^{*)}

Active substance content	about 70% in water
Appearance	At 5°C: cloudy liquid with precipitates At 25°C: clear liquid At 50°C: clear liquid
Density at 25°C (DIN 51757)	About 1.08 g/cm ³
Viscosity (Brookfield, spindle 4, 25°C)	About 650 mPa*s
Flash point (DIN/ISO 2592)	> 100°C
pH of a 1% aqueous solution	About 6 – 8
Solubility in water	Emulsogen LCN 287 is soluble in water in any ratio to produce a clear solution without forming a strong gel phase.
Surface Activity	CMC: about 3,30 g/l based on active material, lowest observed surface tension: about 37 mN/m
Crystallization point	about 10°C
HLB value	About 18
Handling and Storage	After freezing below 10°C, Emulsogen LCN 287 forms precipitates which dissolve after melting at temperatures of 30 – 50°C. Stir well before use.
Biology	Emulsogen LCN 287 is ready biodegradable and contains no additional biocides.

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

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^{*)} 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 LCN 287 is used as emulsifier for emulsion polymerization, as dispersing agent for pigments and for aqueous paints and coatings.

Emulsogen LCN 287 is used as emulsifier for emulsion polymerization of vinyl acetate, styrene and acrylate homo- and copolymers together with anionic surfactants like Emulsogen EPA 073. Emulsogen LCN 287 improves the shear, temperature and electrolyte stability of polymer dispersions.

Recommended usage: 1 - 3% active material based on monomers

USE IN PIGMENT PREPARATIONS

Emulsogen LCN 287 is used as a dispersing agent for inorganic and organic pigments in aqueous pigment preparations. Emulsogen LCN 287 is specially used for carbon black and organic pigments.

Recommended dosage: 5 – 35% active material based on pigments

USE IN AQUEOUS PAINTS AND COATINGS

Emulsofen LCN 287 is used for aqueous paints and coatings as a dispersing agent and stabilizer to improve the compatibility of pigments with polymers.

Emulsofen LCN 287 prevents skinning of aqueous coatings e.g. in textile coatings with emulsion polymers.

Emulsofen LCN 287 improves the shelf like and wetting of pigments in paints. It enhances the wet and dry scrub resistance for architectural emulsion paints.

Recommended dosage: 0,1 – 0,5% based on the formulation

USE IN ALKYD EMULSIONS

Emulsofen LCN 287 is used as emulsifier for aqueous emulsions of alkyd resins.

Recommended dosage: 2 – 7% active material based on the alkyd resin.

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