

Title (en)

DEFOAMING AGENTS DEVOID OF EMULSIFIERS, METHOD FOR PRODUCING SAID AGENTS AND USE THEREOF

Title (de)

EMULGATORFREIE ENTSCHÄUMER, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

AGENTS ANTIMOISSANTS EXEMPTS D'EMULSIFIANTS, LEURS PROCEDES DE PRODUCTION, ET LEUR UTILISATION

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Application

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Abstract (en)

[origin: CA2537295A1] The invention relates to defoaming agents that are devoid of emulsifiers, obtained by mixing: a) between 80 and 99 wt. % of at least one fine-particle d, practically water-insoluble inert solid with b) between 1 and 20 wt. % of at least one hydrophobic organic compound that is solid at room temperature and has a defoaming action in substance with such a shear gradient that the particle size of the defoaming compounds (b) is reduced to an average particle size of between 0.5 and 15 µm. The invention also relates to a method for producing oil-in-water dispersions that are devoid of emulsifiers from mixtures of (a) and (b). Said method involves the mixing of component (a) in a quantity of between 80 and 99 wt. % with component (b) in a quantity of between 1 and 20 wt % in the absence of emulsifiers in an extruder or kneading machine, in such a way that the average particle size of component (b) in the mixture is regulated to between 0.5 and 15 µm, at temperatures of up to 100 °C and the subsequent emulsification of the mixture in water. The invention further relates to the use of the oil-in-water dispersions obtained by said method as defoaming agents and/or deaerators of aqueous, disperse or non-disperse liquids, in particular as defoaming agents and/or deaerators in the paper industry, in the foodstuff industry and in purification plants.

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