

Title (en)
Multiple emulsions

Title (de)
Mehrfachemulsionen

Title (fr)
Emulsions multiples

Publication
EP 1350556 A1 20031008 (DE)

Application
EP 03004297 A 20030227

Priority
DE 10211313 A 20020314

Abstract (en)
A multiple emulsion has polar phase A1, non polar phase B, and polar phase A2, or non polar phase B1, polar phase A, and non polar phase B2. The emulsion further comprises a coalescence stability amount of particulate solid having mean particle size smaller than 1 microm. A multiple emulsion has polar phase A1, non polar phase B, and polar phase A2, or non polar phase B1, polar phase A, and non polar phase B2. The emulsion further comprises a coalescence stability amount of particulate solid having mean particle size smaller than 1 microm. It is provided that surface-active substances are present only up to maximum concentration less than 0.1 times critical micelle concentration of the substances in phases A, A1, A2. Independent claims are also included for: (1) a method of producing (A1/B/A2) multiple emulsion comprising dispersing particulate solids in B phase to form a dispersion, dispersing this dispersion in A1 phase to form an emulsion, and dispersing the emulsion in A2 phase containing particulate solids; (2) a method of producing (B1/A/B2) multiple emulsion comprising dispersing particulate solids in B1 phase to form a dispersion, dispersing this dispersion in A phase to form an emulsion, and dispersing the emulsion in B2 phase containing particulate solids; and (3) a process for controlled release of active ingredients into surrounding area comprising incorporating the active ingredient into dispersed A1/B phase of A1/B/A2 multiple emulsion, or into a dispersed B1/A phase of B1/A/B2 emulsion.

Abstract (de)
Mehrfachemulsion, die aus einer polaren Phase A1, einer unpolaren Phase B und einer polaren Phase A2 oder einer unpolaren Phase B1, einer polaren Phase A und einer unpolaren Phase B2 besteht, dadurch gekennzeichnet, dass sie Partikelförmige Feststoffe, die kleiner 1 µm sind, enthält, mit der Maßgabe, dass oberflächenaktive Substanzen nur bis zu einer maximalen Konzentration von kleiner als 0,1 mal der kritischen Micellkonzentration der oberflächenaktiven Substanzen in Phase A, A1, A2 enthalten sind.

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