

## Title (en)

Stable liquid oil-in-water or water-in-oil emulsions based on vegetal or mineral oils

## Title (de)

Stabile flüssige Öl-in-Wasser oder Wasser-in-Öl Emulsionen auf Grundlage von Pflanzen- oder Mineralölen

## Title (fr)

Emulsion huile dans eau ou eau dans l'huile, liquide et stable, à base d'huiles végétales ou minérales

## Publication

**EP 2181820 A1 20100505 (FR)**

## Application

**EP 09306024 A 20091028**

## Priority

FR 0857421 A 20081031

## Abstract (en)

Water in oil or oil in water emulsion (I) comprises: an oily phase comprising one or more oils of vegetable, mineral and/or synthetic origin, at least one nonionic and/or anionic emulsifying surfactant; and an aqueous phase comprising water and at least one phyllosilicate (I). Water in oil or oil in water emulsion comprises: an oily phase comprising one or more oils of vegetable, mineral and/or synthetic origin, at least one nonionic and/or anionic emulsifying surfactant; and an aqueous phase comprising water and at least one phyllosilicate of formula  $(Na^{+} > 0 \cdot 7[(Si \ 8Mg \ 5 \cdot 5Li \ 0 \cdot 3)O \ 2 \ 0(OH) \ 4] \rightarrow 0 > 7 >)$ . Independent claims are included for: (1) concentrated water in oil or oil in water emulsion comprising at least one or more oils of vegetable, mineral and/or synthetic origin and a nonionic and/or anionic emulsifying surfactant and the phyllosilicate, previously dissolved in a minimum water to obtain a gel or fluid sol, where the dilution allows to obtain (I); (2) preparing (I) comprising: preparing the oily phase by mixing the components comprising at least one or more vegetable, mineral and/or synthetic oils and an anionic and/or ionic emulsifying surfactant in oily phase; preparing the aqueous phase by mixing the components comprising at least water and the phyllosilicate; and mixing continuously or in batch, the oily phase and the aqueous phase in a dissolver; and (3) preparing a concentrate by a water in oil or oil in water emulsion comprising: dissolving the phyllosilicate in a minimum of water to form a gel or fluid sol; mixing at least one or more vegetable and/or mineral and/or synthetic oils and a nonionic and/or anionic emulsifying surfactant of the oily phase; and mixing the mixtures.

## Abstract (fr)

La présente invention concerne une émulsion eau dans huile (e/h) ou huile dans l'eau (h/e) composée d'une phase huileuse comprenant une ou plusieurs huiles d'origine végétale et/ou minérale et/ou de synthèse, au moins un tensio-actif émulateur non ionique et/ou anionique, et une phase aqueuse comprenant de l'eau, caractérisée en ce que la phase aqueuse comprend au moins un phyllosilicate, de sorte à obtenir une émulsion fluide et stable dans le temps. La présente invention se rapporte également à l'utilisation et au procédé de préparation de l'émulsion susmentionnée. La présente invention concerne aussi un concentré de l'émulsion susmentionnée, ainsi que son procédé de fabrication.

## IPC 8 full level

**B28B 7/38** (2006.01); **C09K 23/54** (2022.01)

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## Citation (applicant)

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## DOCDB simple family (application)

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