

Title (en)
ENCAPSULATION OF ACTIVE SUBSTANCES AND/OR MICRO-ORGANISMS IN A LAMELLAR MATERIAL

Title (de)
VERKAPSELUNG VON WIRKSTOFFEN UND / ODER MIKROORGANISMEN IN EINEM LAMELLAREN MATERIAL

Title (fr)
ENCAPSULATION DE SUBSTANCES ACTIVES ET/OU DE MICROORGANISMES DANS UN MATERIAU LAMELLAIRE

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Abstract (en)
[origin: CA3088222A1] The present invention relates to a process for encapsulating a compound selected from the group consisting of at least one active substance, at least one micro-organism and their mixtures in a hybrid organic-inorganic material having a lamellar 2:1 structure, this material having the following general formula: $Nax[(Mg_3)(Al_x(RSi)_4-x)O_{8+x}(OH)_2]$ (I), the process comprising the following steps: (a) sol-gel synthesis of the hybrid organic-inorganic material having a lamellar 2:1 structure in the presence of the compound; (b) recovery of the compound encapsulated in the material of general formula (I). The invention further relates to the compound encapsulated in a hybrid organic-inorganic material having a 2:1 lamellar structure of general formula (I), a composition comprising this compound and its use in plant fertilisation, nutrition, growth stimulation and/or prophylaxis and/or the improvement of physical, chemical and/or biological properties of the soil or a plant cultivation substrate.

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