

Title (en)

PROCESS OF PREPARING ALLOPHANATE- AND/OR THIOALLOPHANATE GROUP-CONTAINING COMPOUNDS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ALLOPHANAT- UND/ODER THIOALLOPHANATGRUPPEN ENTHALTENDEN VERBINDUNGEN

Title (fr)

PROCÉDÉ DE FABRICATION DE COMPOSÉS CONTENANT DES GROUPES ALLOPHANATE ET/OU THIOALLOPHANATE

Publication

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Application

**EP 20737421 A 20200706**

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Abstract (en)

[origin: WO2021004980A1] The invention relates to a process of preparing allophanate- and/or thioallophanate group-containing compounds comprising the following steps: reacting A) at least one component having at least one uretdione group with B) at least one component having at least one hydroxyl and/or thiol group, in the presence C) of at least one catalyst, containing a structural element of the general formulae (I) and/or (II), wherein R1, R2, R3, R4, R5 and R6 independently of each other represent the same or different radicals meaning saturated or unsaturated, linear or branched, aliphatic, cycloaliphatic, araliphatic or aromatic organic radicals with 1 to 18 carbon atoms that are substituted or unsubstituted and/or have heteroatoms in the chain, the radicals being capable of forming, even when combined with each other and optionally together with an additional heteroatom, rings with 3 to 8 carbon atoms that can optionally be further substituted, wherein R3, R4, R5 and R6 independently of each other also can represent hydrogen, and R7 represents hydrogen or a carboxylate anion (COO-), the at least one component A) having at least one uretdione group being polyaddition compounds A2) that can be obtained by reacting isocyanate-functional uretdione groups A1) with alcohols and/or amines that have a free isocyanate group content of less than 5 wt.% in their solvent-free form.

IPC 8 full level

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