

Title (en)
Process for the preparation of isocyanate polyaddition products containing lateral hydroxyl groups and products obtained by this process.

Title (de)
Verfahren zur Herstellung von seitenständige Hydroxylgruppen aufweisenden Isocyanat-Polyadditionsprodukten und die nach diesem Verfahren erhaltenen Produkte.

Title (fr)
Procédé de préparation de produits de polyaddition d'isocyanate contenant des groupes hydroxyles latéraux et produits obtenus par ce procédé.

Publication
EP 0000381 A1 19790124 (DE)

Application
EP 78100323 A 19780707

Priority
DE 2732131 A 19770715

Abstract (en)
[origin: ES471750A1] The present invention relates to a process for the preparation of substantially linear isocyanate polyaddition products having side-chain hydroxyl groups by the reaction of reactive systems which contain free isocyanate groups and oxazolidine groups with water, characterized in that (a) substantially linear prepolymers which contain both isocyanate groups and oxazolidine groups in end positions or (b) a mixture containing substantially linear isocyanate prepolymers and bis-oxazolidines are chain lengthened by mixing with water, using a quantity of water calculated to provide at least about 1 mol of water per mol of oxazolidine groups present in the reaction mixture. The present invention also relates in particular to an embodiment of this process in which the prepolymers used contain chemically built-in hydrophilic groups and/or external emulsifiers, and water is used in such excess that the reaction leads directly to aqueous dispersions or solutions of the polyaddition products. Lastly, the present invention also relates to isocyanate polyaddition products obtainable by the process according to the invention.

Abstract (de)
Die vorliegende Erfindung betrifft ein neues Verfahren zur Herstellung von im wesentlichen linearen Isocyanat-Polyadditionsprodukten mit seitenständigen Hydroxylgruppen, bei welchem man im wesentlichen lineare Präpolymere, welche endständig sowohl Isocyanatgruppen als auch Oxazolidingruppen aufweisen, oder ein im wesentlichen lineare NCO-Präpolymere und Bisoxazolidine aufweisendes Gemisch durch Vermischen mit mindestens einem Mol Wasser pro Mol an im Reaktionsgemisch vorliegenden Oxazolidingruppen kettenverlängert.

IPC 1-7
C08G 18/10; **C08G 18/30**; **C08G 18/32**

IPC 8 full level
C08G 18/08 (2006.01); **C08G 18/10** (2006.01); **C08G 18/30** (2006.01); **C08G 18/00** (2006.01); **C08G 18/32** (2006.01); **C08G 18/65** (2006.01)

CPC (source: EP US)
C08G 18/10 (2013.01 - EP US); **Y10S 528/904** (2013.01 - EP)

C-Set (source: EP US)
1. **C08G 18/10 + C08G 18/302**
2. **C08G 18/10 + C08G 18/3296**
3. **C08G 18/10 + C08G 18/3844**

Citation (search report)
Keine Entgegenhaltungen.

Cited by
EP0372264A1; EP0122552A3; EP0477060A1; EP2792349A2

Designated contracting state (EPC)
BE DE FR GB NL

DOCDB simple family (publication)
EP 0000381 A1 19790124; **EP 0000381 B1 19800806**; DE 2732131 A1 19790125; DE 2860113 D1 19801127; ES 471750 A1 19790201; IT 1105095 B 19851028; IT 7850255 A0 19780712; JP S5420098 A 19790215; JP S6131728 B2 19860722; US 4192937 A 19800311

DOCDB simple family (application)
EP 78100323 A 19780707; DE 2732131 A 19770715; DE 2860113 T 19780707; ES 471750 A 19780714; IT 5025578 A 19780712; JP 8461778 A 19780713; US 92128578 A 19780703