

Title (en)  
POLYESTER OLIGOMER ACRYLATES

Title (de)  
POLYESTER OLIGOMERACRYLATE

Title (fr)  
ACRYLATES D'OLIGOMERES DE POLYESTER

Publication  
**EP 0847310 A4 19980902 (EN)**

Application  
**EP 96925340 A 19960724**

Priority  
• US 9611832 W 19960724  
• US 68679795 A 19950728  
• US 2118395 P 19950728

Abstract (en)  
[origin: WO9704881A1] A compound having the formula:  $(x(\text{CH}_2=\text{CR}_{<1>}-\text{C}(\text{O})\text{O}-)\text{R}_{<2>}-(\text{O}-\text{C}(\text{O})\text{R}_{<3>})_y-\text{O}-\text{C}(\text{O})-\text{NH})_n-\text{R}_{<4>}$ , wherein  $\text{R}_{<1>}$  is hydrogen or methyl,  $\text{R}_{<2>}$  is an alkylene group or substituted alkylene group (typically having less than six carbon atoms, more typically two or three carbon atoms),  $\text{R}_{<3>}$  is an alkylene group or substituted alkylene group (typically having less than ten carbon atoms, more typically from four to six carbon atoms),  $\text{R}_{<4>}$  is the residue of an organic isocyanate (including trimerized isocyanates, but excluding isocyanate-functional prepolymers of active hydrogen compounds) having a functionality of  $n$ ,  $n$  is an integer from two to four (typically two or three),  $x$  is an integer from one to three, and  $y$  is an integer from one to five, is provided. Also provided is a coating composition comprising a compound as set forth above and a method of coating a substrate comprising polymerizing a composition comprised of the compound set forth above while in contact with a substrate. Among the compounds which fall within the above formula are those in which  $\text{R}_{<1>}$  is hydrogen,  $\text{R}_{<2>}$  is an ethylene group,  $\text{R}_{<3>}$  is a pentamethylene group, and  $\text{R}_{<4>}$  is the residue of isophorone di-isocyanate (and  $n$  is two), tetramethylxylene di-isocyanate (and  $n$  is two), toluene di-isocyanate (and  $n$  is two), or trimerized hexamethylene di-isocyanate (and  $n$  is three),  $x$  is one and  $y$  is two.

IPC 1-7  
**B05D 3/02**; **C07C 261/00**; **C07D 251/00**; **C09K 3/00**

IPC 8 full level  
**B05D 3/02** (2006.01); **C07C 217/08** (2006.01); **C07C 261/00** (2006.01); **C07D 251/00** (2006.01); **C07D 251/34** (2006.01); **C08G 18/67** (2006.01); **C09K 3/00** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• [X] US 4188472 A 19800212 - CHANG WEN-HSUAN [US]  
• [X] EP 0017916 A1 19801029 - CONSORTIUM ELEKTROCHEM IND [DE]  
• [X] EP 0017917 A1 19801029 - CONSORTIUM ELEKTROCHEM IND [DE]  
• [A] US 4874799 A 19891017 - HUNG PAUL L K [US], et al  
• See references of WO 9704881A1

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