

Title (en)
IMPROVED BRANCHED AMIDO-AMINE DISPERSANT ADDITIVES

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Abstract (en)
[origin: EP0400864A2] The present invention is directed to branched amido-amine dispersant additives useful in oleaginous compositions formed by (a) reacting a first nitrogen-containing compound (e. g., ammonia or an organic amine) with an alpha, beta-unsaturated compound of the formula: <CHEM> wherein W<1> is sulfur or oxygen, Y is -OR<4>, -SR<4>, or -NR<4>(R<5>), and R<1>, R<2>, R<3>, R<4> and R<5> are the same or different and are hydrogen or substituted or unsubstituted hydrocarbyl, to form a first adduct containing unreacted -C(W<1>)-Y groups; (b) reacting the first adduct with a polyamine (e.g., a polyalkylene polyamine) to form a second adduct containing unreacted -NH- groups (preferably primary amine groups) and comprising a branched amido-amine oligomer; and (c) reacting the second adduct with a long chain hydrocarbyl substituted mono- or dicarboxylic acid material comprising a polyolefin of 300 to 10,000 number average molecular weight substituted with at least 0.3 mono- or dicarboxylic acid producing moieties (preferably acid or anhydride moieties) per polyolefin molecule.

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