

**POLYALKYLENE POLYSUCCINIMIDES AND POST-TREATED DERIVATIVES
THEREOF**

ABSTRACT

A polysuccinimide composition is prepared by reacting a mixture of an alkenyl
5 or alkylsuccinic acid derivative, an unsaturated acidic reagent copolymer, and a
polyamine under reactive conditions. The alkenyl or alkyl substituent of the
alkenyl or alkylsuccinic acid derivative has a Mn of from 140 to 3000. The
unsaturated acidic reagent copolymer has an average degree of polymerization of
from 2 to 20, and is a copolymer of an unsaturated acidic reagent and an olefin
10 having a Mn of at least 1000. The polyamine has at least three nitrogen atoms
and has from 4 to 20 carbon atoms.

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