



ABSTRACT

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In summary, the invention is related to the discovery of a class of compounds which comprises boric acid or maleic acid or a mixture of boric acid with at least one acid having a weak nucleophilic anion, which inhibits the reaction of a polyepoxide with a curing agent at low temperatures. In another embodiment the invention is a latent catalyst system adapted for curing a polyepoxide resulting from contacting I) a catalyst for the cure of a polyepoxide compound comprising an amine, heterocyclic nitrogen phosphine, sulfide, phosphine, sulfide, ammonium, phosphonium, sulfonium, arsonium, containing compound or a mixture thereof; with II) boric acid, or a mixture of boric acid with at least an acid having a weak nucleophilic anion. Further the invention relates to epoxy resin compositions containing the inhibitor or latent catalytic composition. In still another embodiment the invention relates to a composition useful for curing a polyepoxide which



contains: A) an inhibiting amount of boric acid or
maleic acid or a mixture of boric acid with at least one
acid having a weak nucleophilic anion; and optionally B)
a catalytic amount of a catalyst useful for accelerating
the reaction of a polyepoxide with the curing agent,
5 wherein the inhibitor and catalyst may be present in
complex form.

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