

**ADDITIVES TO PREVENT DEGRADATION OF CYCLIC ALKENE
DERIVATIVES**

ABSTRACT

A stabilized cyclic alkene composition comprising one or more cyclic alkenes, and at least one antioxidant compound having the formula (I), wherein R^1 through R^5 can each independently be H, OH, C_1 - C_8 linear, branched, or cyclic alkyl, C_1 - C_8 linear, branched, or cyclic alkoxy or substituted or unsubstituted aryl, and wherein the antioxidant compound is present in an amount between 1 ppm and 200 ppm and has a boiling point lower than 265 °C. A method for forming a layer of carbon-doped silicon oxide on a substrate, which uses the stabilized alkene composition and a silicon containing compound.

Figure 1