

ABSTRACT**Lubricating Oil Additives**

A lubricating composition comprises an oil-soluble poly(2-oxazoline) additive having the repeat unit:



where the number of repeat units (n) is an integer between 4 and 1000;

where the polymer carries an inorganic or organic nucleophilic polymerization terminating group t, and a linear, branched or cyclic hydrocarbyl polymerization initiator group (i); and

where R¹ comprises a single or a mixture of linear branched or cyclic hydrocarbyl groups having 1-100 carbon atoms, some or all having 12-100 carbon atoms, or of at least one macro-monomeric hydrocarbyl group with more than 50 carbon atoms provided that when the polymer is a homopolymer and R¹ lacks any hetero atoms:

(A) i has a molecular weight of less than 250g/mol, and R¹ has an average number of carbon atoms of 12 to 50; or

(B) n is greater than 15.

The polymer may provide the composition, in the form of a lubricant, with friction modifier, and with low impact on lubricant viscosity.

The polymer may be a homopolymer, a block copolymer or a star polymer.

No figure