



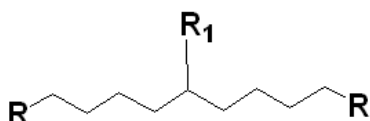
Sustainable biomass derived

UpSycal®CBO

100% Natural, Upcycled & Bio-based

Key components: 11-pentylheneicosane, 11-pentylotadecane, 11-pentylnonadecane

Structure of key components:



TARGET APPLICATIONS

Bio-PAO lubricant base oil

Personal care products

About UpSycal®CBO

UpSycal®CBO is a branched hydrocarbon oil comprised of 100% biobased carbon. The product is manufactured from non-food biomass and other bio-sourced raw materials with Green Chemistry principles. This biobased oil is an ideal replacement for current petroleum-derived 4 poly- α -olefin base oils of viscosity ~ 4 cSt (at 100 °C) to formulate sustainable and natural lubricants for the existing applications.

UpSycal®CBO key specifications

Viscosity Index = 114 (ASTM D2270)

Viscosity at 40°C, cSt = 17.11 (ASTM D445)

Viscosity at 100°C, cSt = 3.08 - 3.808 cSt (ASTM D445)

Pour Point, °C = -48 (ASTM D97)

Evaporation Loss (6.5 hrs. at 100°C), mass % = 0.92 (ASTM D972)

Oxidation Onset Temperature, °C = 184 (ASTM E2009 Method B)

Biobased carbon content = 100%



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