

Title (en)

Waterborn multifunctional lubricant based on dithiodiglycolic acid

Title (de)

Wässriges multifunktionelles Schmiermittel auf der Basis von Dithiodiglykolsäure

Title (fr)

Lubrifiant aqueux multifonctionnel à base d'acide dithiodiglycolique

Publication

EP 1156100 A1 20011121 (FR)

Application

EP 01400944 A 20010412

Priority

FR 0006457 A 20000519

Abstract (en)

Multifunctional aqueous lubricant, comprising at least one water-soluble salt of dithio-diglycolic acid and at least one water soluble compound selected from phosphoric ester (I) and salt of alkyl-thioacid (II), at wt. ratio of dithio-diglycolic acid to compound (I) and (II) as 1/1-20/1, is new. The lubricant comprises at least one water-soluble salt of dithio-diglycolic acid and at least one water-soluble compound selected from: (a) phosphoric esters of formula $(\text{HO})_3\text{-x-P(O)-}((\text{O}(\text{CkH}_2\text{k})\text{m-OR})\text{x})$ (I) and their salts; and (b) water-soluble salts of alkylthio-acids of formula $\text{R}'\text{-S-(CH}_2\text{)}_n\text{-COOH}$ (II). R = 6-20C alkyl, alkenyl or alkylaryl; k = 2 or 3; m = 0-20; x = 1 or 2; n = 1-10; R' = 6-20C alkyl, alkenyl or aryl radical. An Independent claim is also included for an additive to multifunctional aqueous lubricant, comprising aqueous solution of at least one water-soluble salt of dithio-diglycolic acid and at least one water soluble compound selected from phosphoric esters (I) and their salts, and salts of alkyl-thioacid (II), as claimed.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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