

Title (en)
METALWORKING FLUID CONCENTRATE

Title (de)
METALLBEARBEITUNGSFLÜSSIGKEITSKONZENTRAT

Title (fr)
CONCENTRÉ DE FLUIDE POUR LE TRAVAIL DES MÉTAUX

Publication
EP 4296339 A1 20231227 (EN)

Application
EP 23178960 A 20230613

Priority
GB 202209118 A 20220621

Abstract (en)
A metalworking fluid concentrate with improved stability and overall performance is described, comprising(A1) 1.5 - 4.0wt% of a blend of a C₈-C₃₀ alcohol with a fatty acid ester R¹CO₂R² where R¹ is a C₈-C₃₀ acid residue and R² is a C₁-C₁₂ alcohol residue;(A2) 1.5 - 4.0wt% wt% of a surfactant;(A3) 0.5 - 3.0wt% of additives selected from anti-gelling agents, foam control agents, antiwear additives, extreme pressure additives, pH buffers and biocides;(B1) 6 - 15wt% of an amine which is water-soluble at room temperature;(B2) 2 - 5wt% of a corrosion inhibitor which is water-soluble at room temperature;(B3) 5 - 15wt% of a compound selected from ethylene oxide or propylene oxide block copolymers, ethylene oxide or propylene oxide random copolymers, ethylene oxide or propylene oxide polymer esters and ethylene oxide ethers; and(B4) 60-80wt% of water.

IPC 8 full level
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CPC (source: EP GB)
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Citation (search report)
• [I] WO 2022099300 A1 20220512 - ARDAGH METAL BEVERAGE USA INC [US]
• [I] EP 2075319 A1 20090701 - NALCO CO [US]
• [I] CN 109777584 A 20190521 - YANG KEYU
• [A] WO 0053701 A1 20000914 - CASTROL LTD [GB], et al

Designated contracting state (EPC)
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