

Title (en)
EMULSION-TYPE EXPLOSIVES OF THE WATER-IN-OIL TYPE

Title (de)
EMULSIONSARTIGE SPRENGSTOFFE VOM WASSER-IN-ÖL-TYP

Title (fr)
EXPLOSIFS À ÉMULSION DE TYPE EAU DANS HUILE

Publication
EP 4056545 A1 20220914 (EN)

Application
EP 21161191 A 20210308

Priority
EP 21161191 A 20210308

Abstract (en)
The present disclosure relates to a water-in-oil emulsion explosive composition, comprising an organic phase and an oxidizer phase at least comprising ammonium nitrate, wherein at least 50 wt.% of the normally used non-renewable oil in the organic phase is replaced with one or more renewable oils. The present disclosure relates to an explosive emulsion composition of the water-in-oil type, comprising between 80 wt.% and 95 wt.% of an oxidizer phase in view of the total weight of the emulsion composition, comprising at least 40 wt.% of ammonium nitrate (AN), and at least one or more secondary nitrate salts, comprising in particular at least 10 wt.% calcium nitrate or at least 20 wt.% calcium nitrate and/or sodium nitrate, in view of the total weight of the oxidizer phase composition, between 5 wt.% and 20 wt.% of an organic phase in view of the total weight of the emulsion composition, the organic phase comprising between 12 wt.% and 50 wt.% of one or more emulsifiers, between 50 wt.% and 88 wt.% of a fuel composition, in view of the total weight of the organic phase composition, in which the fuel composition consists of between 0 wt.% and 50 wt.% of one or more non-renewable oils, and between 50 wt.% and 100 wt.% of one or more renewable oils, in view of the total weight of the fuel composition, the total weight% of the oils being 100.

IPC 8 full level
C06B 47/14 (2006.01)

CPC (source: EP US)
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Citation (search report)

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