

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

Title (de)
WASSER-IN-ÖL SPRENGSTOFFEMULSION

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

Publication
EP 4305008 A1 20240117 (EN)

Application
EP 22711939 A 20220308

Priority
• EP 21161190 A 20210308
• EP 2022055786 W 20220308

Abstract (en)
[origin: EP4056544A1] 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.%, or even 100 wt.% of the normally used non-renewable oil in the organic phase is replaced with one or more chemically processed renewable oils and/or straight vegetable oils or straight animal fats. The present disclosure relates to an explosive emulsion composition of the water-in-oil type is disclosed, comprising- 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 5 wt.% and 100 wt.% one or more chemically processed renewable oils,• between 0 wt.% and 95 wt.% of one or more straight vegetable oils (SVO) or one or more straight animal fats, and• between 0 wt.% and 50 wt.% one or more non-renewable oils,in view of the total weight of the fuel composition, the total weight% of the different oils being 100, and- 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. and up to 80 wt.% of ammonium nitrate (AN), and• at least 5 wt.% of one or more secondary nitrate salts,in view of the total weight of the oxidizer phase composition.

IPC 8 full level
C06B 47/14 (2006.01)

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