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(54) Titre : COMPOSITION PHOTOPOLYMERISABLE, ENCRE POUR JET D'ENCRE PHOTOPOLYMERISABLE, ET
CARTOUCHE D'ENCRE
(54) Title: PHOTOPOLYMERIZABLE COMPOSITION, PHOTOPOLYMERIZABLE INKJET INK, AND INK CARTRIDGE

(57) **Abrégé/Abstract:**

To provide a non-aqueous photopolymerizable composition, which contains: a (meth)acrylic acid ester compound containing at least diethylene glycol dimethacrylate; a photoradical polymerization initiator, which is at least one selected from the group consisting of 1-hydroxy-cyclohexyl-phenyl-ketone, 2-hydroxy-2-methyl-1-phenyl-propan-1-one, and 2-hydroxy-1-{4-[4-(2-hydroxy-2-methyl-propionyl)benzyl]phenyl}-2-methyl-1-propan-1-one; and a triazine compound, wherein an amount of the photoradical polymerization initiator is 10 parts by mass or greater relative to 100 parts by mass of the (meth)acrylic acid ester compound.



DESCRIPTION

Title of Invention

PHOTOPOLYMERIZABLE COMPOSITION,
PHOTOPOLYMERIZABLE INKJET INK, AND INK CARTRIDGE

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Technical Field

The present invention relates to a photopolymerizable composition, a photopolymerizable inkjet ink, and an ink cartridge housing the ink.

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Background Art

Photopolymerizable compositions and photopolymerizable inkjet inks using (meth)acrylic acid esters have been widely known (see PTL1).

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However, many of monomers used in conventional photopolymerizable inkjet inks are toxic. Especially, most of (meth)acrylic acid esters, which are readily available with low cost, have high toxicity in terms of skin sensitivity, which causes allergy reactions with skin upon contact with them.

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Conventional art has not yet provided any solution to this problem.

Based on the studies conducted so far, the present inventors have found a few (meth)acrylic acid ester and (meth)acryl amide, which have no problem in skin sensitization.

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As for one of examples thereof, proposed is an inkjet ink

