chloride ion, a bromide ion, and an iodide ion. Further, examples include alkyl sulfate ions with 1 or more and 3 or less carbons, for example, a methyl sulfate ion, an ethyl sulfate ion, and a propyl sulfate ion.

[0034]

Examples of the amphoteric surfactant of component (a4) can include an N-alkanoylaminopropyl-N,N-dimethylamine oxide, an N-alkyl-N,N-dimethylamine oxide, an N-alkanoylaminopropyl-N,N-dimethyl-N-carboxymethyl ammonium betaine, an N-alkyl-N,N-dimethyl-N-carboxymethyl ammonium betaine, an N-alkyl-N,N-dimethyl-N-sulfopropyl ammonium sulfobetaine, an N-alkyl-N,N-dimethyl-N-(2-hydroxysulfopropyl) ammonium sulfobetaine, an N-alkanoylaminopropyl-N,N-dimethyl-N-sulfopropyl ammonium sulfobetaine, or an N-alkanoylaminopropyl-N,N-dimethyl-N-(2-hydroxysulfopropyl) ammonium sulfobetaine. The alkanoyl groups in these are, for example, lauroyl groups or myristoyl groups. Further, the alkyl groups in these are, for example, lauryl groups or myristyl groups.

[0035]

<Component (b)>

The powder detergent composition of the present invention contains a percarbonate as component (b).

Component (b) is preferably an alkali metal percarbonate, more preferably one or more selected from sodium percarbonate and potassium percarbonate, and further preferably sodium percarbonate from the

detergent composition shown in Table 1 with ion-exchanged water was placed in a tergotometer (MS-8212 manufactured by Ueshima Seisakusho Co., Ltd., inner diameter 12 cm, height 17.5 cm) and the set of the artificially contaminated cloth with model yellow stain was added thereto to conduct a washing test under the following conditions:

· washing conditions

washing time: 10 minutes

concentration of powder detergent composition: 1 mass%

water hardness: 4°dH

water temperature: 30°C

rinsing: rinsing with running water for 5 minutes with tap water at 30°C

[0094]

After washing, four pieces were taken from the set of the artificially contaminated cloth with model yellow stain to measure yellow stain bleaching rates by the following method.

The reflectances at 550 nm of the original cloth before contamination and the pre-washing piece and the post-washing pieces of the artificially contaminated cloth with model yellow stain were measured with a colorimeter (manufactured by NIPPON DENSHOKU INDUSTRIES CO., LTD., SE-2000) to determine the yellow stain bleaching rates (%) by the formula below, and the average

CLAIMS

[Claim 1]

A powder detergent composition comprising the following component (a) in an amount of 5.0 mass% or more and 20.0 mass% or less, the following component (b) in an amount of 1.0 mass% or more and 20.0 mass% or less, and the following component (c) in an amount of 0.1 mass% or more and 5.0 mass% or less,

component (a): a surfactant (excluding component (c)) containing one or more anionic surfactants (hereinafter referred to as component (a11)) selected from a polyoxyalkylene alkyl or alkenyl ether sulfate, an α-sulfo fatty acid ester, and a salt of these, wherein a content ratio of the component (a11) in the component (a) is 20 mass% or more,

component (b): a percarbonate, and

component (c): an alkanoyl or alkenoyloxy benzene sulfonic acid or a salt thereof.

[Claim 2]

The powder detergent composition according to claim 1, wherein a content ratio of an anionic surfactant in the component (a) is 50 mass% or more.

[Claim 3]

The powder detergent composition according to claim 1 or 2, wherein a content ratio of the component (a11) in the component (a) is 50 mass% or more.

[Claim 4]

The powder detergent composition according to any one of claims 1 to 3, wherein the component (a11) is a polyoxyalkylene alkyl or alkenyl ether sulfate or a salt thereof.

[Claim 5]

The powder detergent composition according to any one of claims 1 to 4, wherein a mass ratio of a total content of the components (b) and (c) to a content of the component (a), [(b) + (c)]/(a), is 0.2 or more.

[Claim 6]

The powder detergent composition according to any one of claims 1 to 5, wherein a mass ratio of a content of the component (b) to a content of the component (c), (b)/(c), is 3.0 or more.

[Claim 7]

The powder detergent composition according to any one of claims 1 to 6, wherein a mass ratio of a total content of the components (b) and (c) to a content of the

component (a11), [(b) + (c)]/(a11), is 0.5 or more and 2.0 or less.

[Claim 8]

The powder detergent composition according to any one of claims 1 to 7, wherein a pH at 25°C of 1 g of the powder detergent composition diluted to 1000 g with ion-exchanged water is 9.0 or more.

[Claim 9]

The powder detergent composition according to any one of claims 1 to 8, wherein the composition is used for textile products.

[Claim 10]

A method for washing a textile product comprising washing the textile product with a detergent liquid obtained by mixing the powder detergent composition according to any one of claims 1 to 9 and water.