alkanoylaminopropyl-N,N-dimethyl-N-sulfopropyl ammonium sulfobetaine, and 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.

[0032]

The detergent composition of the present invention contains component (a) in the detergent composition in an amount of preferably 5 mass% or more, more preferably 10 mass% or more, and further preferably 20 mass% or more, and preferably 80 mass% or less, more preferably 50 mass% or less, and further preferably 30 mass% or less from the viewpoints of washing performance and stability.

If the detergent composition of the present invention is a solid detergent composition, the detergent composition contains component (a) in an amount of preferably 5 mass% or more, more preferably 10 mass% or more, and further preferably 20 mass% or more, and preferably 40 mass% or less and more preferably 30 mass% or less from the viewpoints of washing performance and stability.

If the detergent composition of the present invention is a liquid detergent composition, the detergent composition contains component (a) in an amount of preferably 20 mass% or more, more preferably 30 mass% or more, and further preferably 40 mass% or more, and

CLAIMS

[Claim 1]

A detergent article for textile products comprising a detergent composition wrapped in a water-soluble film, the composition containing (a) a surfactant (hereinafter referred to as component (a)) in an amount of 5 mass% or more and 80 mass% or less, wherein a major-axis diameter of a maximum projection area of the detergent article is 30 mm or more and 200 mm or less, and an aspect ratio of the major-axis diameter to a minor-axis diameter orthogonal to the major-axis diameter (major-axis diameter/minor-axis diameter) is 5 or more.

[Claim 2]

The detergent article for textile products according to claim 1, wherein a thickness of the water-soluble film is 70 μm or more and 200 μm or less.

[Claim 3]

The detergent article for textile products according to claim 1 or 2, wherein the aspect ratio (major-axis diameter/minor-axis diameter) is 5 or more and 20 or less.

[Claim 4]

The detergent article for textile products according to claim 1 or 2, wherein the aspect ratio (major-axis diameter/minor-axis diameter) is 6 or more and 20 or less.

[Claim 5]

The detergent article for textile products according to any one of claims 1 to 4, wherein the detergent composition comprises the component (a) in the detergent composition in an amount of 10 mass% or more and 50 mass% or less.

[Claim 6]

The detergent article for textile products according to any one of claims 1 to 5, wherein a detergent liquid obtained by diluting the detergent article for textile products with water to achieve a concentration of the contained detergent composition of 0.2 g/L has a pH of 9.0 or more at 25°C.

[Claim 7]

The detergent article for textile products according to any one of claims 1 to 6, wherein the component (a) is one or more selected from (a1) a nonionic surfactant (hereinafter referred to as component (a1)) and (a2) an anionic surfactant (hereinafter referred to as component (a2)), the component (a)

comprises the components (a1) and (a2), and a mass ratio of a content of the component (a1) to a content of the component (a2) in the detergent composition, (a1)/(a2), is 0.1 or more and 10 or less.

[Claim 8]

The detergent article for textile products according to any one of claims 1 to 7, wherein the major-axis diameter of the maximum projection area of the detergent article is 50 mm or more and 160 mm or less.

[Claim 9]

The detergent article for textile products according to any one of claims 1 to 8, wherein a breaking strength of the detergent article for textile products is 300 N or more.

[Claim 10]

The detergent article for textile products according to any one of claims 1 to 9, wherein the detergent composition is a solid detergent composition.

[Claim 11]

The detergent article for textile products according to claim 10, wherein the detergent composition comprises the component (a) in the detergent composition in an amount of 5 mass% or more and 40 mass% or less.

[Claim 12]

The detergent article for textile products according to any one of claims 1 to 9, wherein the detergent composition is a liquid detergent composition, and comprises the component (a) in the detergent composition in an amount of 20 mass% or more and 80 mass% or less.

[Claim 13]

A method for washing a textile product comprising bringing the detergent article for textile products according to any one of claims 1 to 12 into contact with the textile product and water.

[Claim 14]

The method for washing a textile product according to claim 13, wherein the textile product is washed with a washing machine by putting the detergent article, the textile product, and the water into a washer tub.

[Claim 15]

Use of the detergent article for textile products according to any one of claims 1 to 12 for washing textile products with a washing machine.