It is known that when a cationized polygalactomannan, for example, is included in a composition as a cationic polymer in order to improve the smoothness of skin after cleansing, the inner viscosity of the composition increases. If the inner viscosity increases excessively, there will be a problem that a liquid cleaning agent cannot be discharged from a discharge port of a container having a dispenser. In addition, there is a tendency for the viscosity of cleansing compositions that include unneutralized fatty acid soap to increase during winter due to an excess fatty acid content. Meanwhile, if an excessive amount of polyethylene glycol is added to cause foam to become dense, there is a tendency for the smoothness of skin after cleansing to be impaired, and also a problem that such a skin cleanser becomes stringy at discharge ports of containers. The preparations for liquid skin cleansing agents which are disclosed in the above patent documents are insufficient to realize all of density of foam, smoothness of skin after cleansing, and discharge properties from a container having a dispenser at low temperatures. Here, the term "liquid" refers to a substance having fluidity at room temperature and a measured value of 50000 mPa · s or less as measured by a B type viscometer.

[0006]

The present disclosure has been developed in view of the foregoing circumstances. The present disclosure provides a liquid skin cleansing agent and a liquid skin cleansing product that imparts smoothness to skin after cleansing, a dense foam, and favorable discharge properties from a dispenser even at low temperatures.

[0007]

The liquid skin cleansing agent of the present disclosure is a liquid skin cleansing agent that includes:

a fatty acid soap;

cationized polygalactomannan; and

polyethylene glycol;

the neutralization rate of the fatty acid soap being 90 mol% or greater and 99 mol% or less,

the content ratio of the cationized polygalactomannan with respect to the total amount of the liquid skin cleansing agent being 0.05% by mass or more, and

the polyethylene glycol having a weight average molecular weight Mw of 2,000,000 or greater.

[0007a]

In an aspect, there is provided a liquid skin cleansing agent comprising:

a fatty acid soap;

cationized polygalactomannan;

polyethylene glycol; and

a dihydric alcohol;

the neutralization rate of the fatty acid soap being 90 mol% or greater and 99 mol% or less,

the content ratio of the cationized polygalactomannan with respect to the total amount of the liquid skin cleansing agent being 0.05% by mass or more, and

the polyethylene glycol having a weight average molecular weight Mw of 2,000,000 or greater, and

the mass of the dihydric alcohol/the mass of the carionized polygalactomannan, which is the mass ratio of the dihydric alocohol with respect to the cationized polygalactomannan, is 20 or greater.

[0007b]

In another aspect, there is provided a liquid skin cleansing product, comprising:

a liquid skin cleansing agent as defined above; and

a container filled with the liquid skin cleansing agent.

[0008]

CLAIMS

1. A liquid skin cleansing agent comprising:

a fatty acid soap;

cationized polygalactomannan;

polyethylene glycol; and

a dihydric alcohol;

the neutralization rate of the fatty acid soap being 90 mol% or greater and 99 mol% or less,

the content ratio of the cationized polygalactomannan with respect to the total amount of the liquid skin cleansing agent being 0.05% by mass or more, and

the polyethylene glycol having a weight average molecular weight Mw of 2,000,000 or greater, and

the mass of the dihydric alcohol/the mass of the carionized polygalactomannan, which is the mass ratio of the dihydric alocohol with respect to the cationized polygalactomannan, is 20 or greater.

2. A liquid skin cleansing agent as defined in Claim 1, further comprising:

cationized polymers other than the cationized polygalactomannan.

3. A liquid skin cleansing agent as defined in Claim 1 or Claim 2, wherein:

the N content ratio of the cationized polygalactomannan is 0.2% or greater and 3.0% or less.

4. A liquid skin cleansing product, comprising:

a liquid skin cleansing agent as defined in any one of Claims 1 through 3; and

a container filled with the liquid skin cleansing agent.