

TEGO® Pearl N 100

Cold processable pearling agent for shampoos, shower and bath preparations etc.

- fine metallic, brilliant white pearl effect
- liquid, pumpable
- universal
- no influence on viscosity

Personal Care

INCI Name (CTFA Name)

Glycol Distearate; Steareth-4

Chemical and physical properties (not part of the specifications)

Form	liquid
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Application

TEGO® Pearl N 100 is a fine-particled dispersion of ethylene glycol distearate in an aqueous solution. It is used as a pearlizing agent in shampoos, shower and bath preparations and for other pearlized formulations.

TEGO® Pearl N 100 is a homogeneous viscous fluid and is intended for cold mixing/processing. It may be combined with most surface active substances and does not effect cosmetically active components.

As TEGO® Pearl N 100 contains only non-ionic components, it is a universal product, which may be used in e.g.

- shampoos, shower and foam baths
- conditioning hair rinses
- hair gels

Preparation

TEGO® Pearl N 100 is mixed with all other ingredients. Mixture is stirred, until it is homogeneous. A very low viscosity in the final product may result in a gradual separation of TEGO® Pearl N 100, which will settle to the bottom. In such cases suitable thickening agents (e.g. ANTIL® HS 60) should be used to adjust the viscosity.

Recommended usage concentration

0.5 – 3.0 % TEGO® Pearl N 100

Packaging

800 kg pallet (4 x 200 kg drum)

Storage stability

TEGO® Pearl N 100 can be stored in unopened containers at temperatures between 5 °C and 35 °C for at least 12 months.

TEGO® Pearl N 100 tends to cloudiness and crystallization after storage time. This is reversible and has no negative influence on the quality. Short stirring will provide adequate homogenization.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guide Line Formulations

Conditioning Hair Rinse (cold processable)	
TEGO® Pearl N 100 (Glycol Distearate; Steareth-4)	3.0 %
ABIL® Quat 3272 (Quaternium-80)	0.5 %
TEGO® Betain F 50 (Cocamidopropyl Betaine)	2.0 %
Hydroxyethyl cellulose	1.5 %
Panthenol	0.5 %
Fragrance	0.5 %
Hydrolyzed Protein	0.5 %
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride (Jaguar C-162, Rhodia)	0.2 %
Citric acid (ad pH 4)	0.2 %
Water	90.6 %
Preservative	q.s.
Preparation: Components are processed at room temperature. Guar quat and hydroxyethyl cellulose have to be soaked in water.	

Conditioning shampoo	
Sodium Lauryl Ether Sulfate (28 %)	35.0 %
ABIL® EM 90 (Cetyl PEG/PPG-10/1 Dimethicone)	0.5 %
Perfume	0.5 %
Water	47.0 %
ABIL® Quat 3272 (Quaternium-80)	0.5 %
TEGO® Betain F 50 (Cocamidopropyl Betaine)	10.0 %
ANTIL® 171 (PEG-18 Glyceryl Oleate/Cocoate)	3.0 %
TEGO® Pearl N 100 (Glycol Distearate; Steareth-4)	2.0 %
NaCl	q.s.
Preservative	q.s.
Preparation: Mix the ingredients in the given order. The solubilization of the ABIL® EM 90 has to be done very carefully.	

Shower Bath	
Ammonium Lauryl Sulfate (34 %)	15.0 %
Ammonium Lauryl Ether Sulfate (24 %)	25.0 %
Perfume	0.5 %
Water	42.5 %
TEGOSOFT® GC (PEG-7 Glyceryl Cocoate)	3.0 %
TEGO® Betain F 50 (Cocamidopropyl Betaine)	10.0 %
ANTIL® HS 60 (Cocamidopropyl Betaine; Glyceryl Laurate)	2.0 %
TEGO® Pearl N 100 (Glycol Distearate; Steareth-4)	2.0 %
Preservative	q.s.
Preparation: Mix the ingredients of the formulation in the given order. The pH value may be adjusted with citric acid or NaOH. In the final production step, viscosity is adjusted using ANTIL® HS 60. A fine-tuning of viscosity may also be carried out with 0.1 – 0.5 % of Ammonium chloride.	

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