

Principal/Trade Name, INCI
Weight %
Phase A
Purified Water 50.70%

Versene NA2 Crystals 0.05%
Disodium EDTA

Novethix™ L-10 Polymer 1.00%
Acrylates / Beheneth-25 Methacrylate Copolymer

Palmera® G997U 2.00%
Glycerin

Sulfochem™ ES-2CKW Surfactant 35.0%
Sodium Laureth Sulfate

Chembetaine™ C Surfactant 7.00%
Cocamidopropyl Betaine

AMISOFT® ESC-22W 2.00%
Disodium Cocoyl Glutamate, Water
Glydant® Plus Liquid 0.60%
DMDM Hydantoin, Iodopropynyl Butylcarbamate
Sodium Hydroxide (18% solution) 0.50%
Sodium Hydroxide
Citric Acid (powder) 0.15%
Citric Acid
Sodium Chloride (powder) 1.00%
Sodium Chloride
Product Properties:
Appearance: Clear thick liquid

pH: 6.50-6.80

Viscosity: 3000-5000 cps (RVT 4@20)

Stability: passed 50C (1 week), FT (5 cycles)

Procedure:

Phase A- Load the main tank with cold water and start mixing at moderate speed. Add Versene NA2 Crystals and mix well to dissolve. Add Novethix™ L-10 and continue mixing.

Load slowly Sulfochem™ ES-2CKW Surfactant and mix until the batch is uniform . Add Chembetaine™C Surfactant and mix to incorporate. Adjust the mixing speed to avoid aeration.

Add AMISOFT® ESC-22W and mix to incorporate uniformly. Add Glydant® Plus Liquid and mix well.

Slowly add Sodium Hydroxide and mix until the batch will become clear and homogeneous. Add citric acid and continue mixing.

Add Sodium Chloride and keep mixing until the batch will become thick.

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Lubrizol

Novethix™ L-10 Polymer is a highly efficient hydrophobically modified alkali-swellaable emulsion polymer (Hyper-HASE) designed for structuring most cleansing formulations containing anionic, nonionic and zwitterionic surfactants.

Lubrizol

Sulfochem™ ES-2CKW Surfactant is a versatile, cost-effective surfactant for use in personal cleansing products. This product has superior flash foam and lather characteristics and good skin compatibility. Its uses include liquid, lotion and pearl shampoos; shower and bath gels; bubble baths and facial cleansers.

Lubrizol

Chembetaine™ C Surfactant is a high-foaming, mild surfactant that is stable over a wide pH range. Its excellent foam and viscosity building with anionics suggest uses in bubble baths, liquid soaps, skin cleansers, shampoos and conditioners.

AJINOMOTO

AMISOFT® ECS-22W is an anionic surfactant produced from L-Glutamic acid (an amino acid) and plant-derived palm kernel fatty acid. It is natural, mild, eco-friendly, and easy to use in formulations. This product is recommended for use in body wash, hand wash, hair shampoo, facial wash, make-up cleansing, and bar soap.