

D-175

LIQUID HAND DISHWASHING

COST EFFECTIVE

GUIDELINE FORMULARY

DESCRIPTION

Cost-effective hand dishwashing formulation
Optimized surfactant system for the maximum possible effectiveness
Designed with the ecological LEVENOL® chemistry

COMPOSITION

	%
EMAL® 270D ⁽¹⁾	12.8
BETADET® HR ⁽²⁾	15.0
LEVENOL® F-200	1.5
Sodium Chloride	0.4
Citric Acid (50%)	q.s.
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative	2.0
Deionized Water	Up to 100

(1) 12.8% of EMAL® 270D can be replaced by 33.3% of EMAL® 227E or 32.1% of EMAL® 228.

(2) BETADET® HR can be replaced by 11.3% of BETADET® HR-50K

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear viscous liquid	KCSA-258
pH (as it is):	7.0 - 7.5	KCSA-014
VISCOSITY BROOKFIELD (20°C,cP):	Approx. 700	KCSA-227
SURFACTANT ACTIVE CONTENT (%):	Approx. 15	KCSA-246
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Charge deionized water and add EMAL[®] 270D, LEVENOL[®] F-200, BETADET[®] HR and approximately an 90% of the total water. Stir at the end of additions until complete. Continue with the addition of the rest of water and enough quantity of Citric Acid (50%) in order to neutralize.

Add dye, perfume and preservative, stir after each addition until complete homogenization.

Adjust viscosity with NaCl, stirring until complete homogenization.

COMPONENTS

BETADET[®] HR (Cocamidopropyl Betaine, ≈ 35% dry matter): amphoteric character. Secondary surfactant. It decreases the irritation level of the anionic surfactants on the skin, improving level and quality of the foam. Additional thickening affect.

EMAL[®] 270D (Sodium Laureth Sulfate, ≈ 70% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

LEVENOL[®] F-200 (Glycereth-6 Cocoate, ≈ 100% a.m.): non-ionic character. Mild surfactant with detergent power performance similar or even better than standard non-ionic surfactants. Medium foaming and good hydrotropic & wetting properties that allow the reduction of solvents. Eco-toxicologically friendly. It doesn't need any risk sentences or warnings on its label.

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose.

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Ref.

(Edited December 2017. Updated version July 2020)



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