

# C-132

# HAIR CONDITIONER

## GREEN FORMULATION

### GUIDELINE FORMULARY

#### DESCRIPTION

Conditioning and smoothing product for the hair

Hair becomes shiny

After its application combing becomes easier (wet-dry conditions)

No rinse needed

#### COMPOSITION

	%
KALCOL® 6850	2.5
QUARTAMIN® BTC-131	2.5
TETRANYL® CO-40	1.3
Lactic Acid (90%)	0.1
KAO Fragrance	q.s.
Conditioning additives (extracts, silicones...)	q.s.
Preservative	q.s.
pH control	q.s.
Deionized Water	Up to 100

#### TECHNICAL CHARACTERISTICS

#### Kao Method

APPEARANCE (20°C):	White viscous emulsion	KCSA-258
pH (as it is):	Approx. 3.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 2,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

## RECOMMENDED OPERATIVE METHOD

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Heat 30% of water up to 60-65°C.

Add QUARTAMIN® BTC-131, TETRANYL® CO-40 and KALCOL® 6850P under stirring until fatty alcohol is completely melted.

Once the mixture is homogenized add TETRANYL® CO-40 and KALCOL® 6850 under stirring.

Once the fatty alcohol is completely melted keep stirring at 60-65°C for 30 minutes at 250rpm, until total homogeneity.

Start cooling processes in a gradual slope (0.3°C/min) at 150rpm.

Add the rest of the water slowly at temperature below 40°C.

Fragrance and preservative have to be added below 40°C.

Adjust pH if needed.

## COMMENTS

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If high conditioning effect is desired, other type of components can be added (extracts, protein hydrolyzates, cationic polymers, silicones, etc.), taking always under account supplier advises.

## COMPONENTS

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**KALCOL® 6850** (Cetearyl Alcohol, C1618:50/50 approx., ≈ 100% a.m.): non-ionic character. Co-emulsifier and thickener. Low substantive conditioning properties. Suggested dosage: 1 - 5%.

**QUARTAMIN® BTC-131** (Behenoyl PG-Trimonium Chloride, ≈ 70% a.m.): cationic character. Conditioning surfactant. It provides smoothness, shine and anti-static properties to the hair, making easy to comb it. It doesn't present cumulative effect. Environmentally friendly cationic

**TETRANYL® CO-40** (Dioleyloylethyl Hydroxyethylmonium Methosulfate, ≈ 80% a.m.): cationic character. Conditioning surfactant, under liquid form. It provides smoothness, shine and anti-static properties to the hair, making easy to comb it. It doesn't present cumulative effect. Environmentally friendly cationic surfactant.

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. C15001/C-132P2

(Edited May 2015. Updated version July 2020)



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