

# HAND SANITIZER FORMULATIONS BY KAO



# C-190 GEL HAND

# SANITIZER WITH ALCOHOL

## GUIDELINE FORMULARY

### DESCRIPTION

Gel form easier to apply.  
Re-moisturizing effect of LEVENOL® H&B.

### COMPOSITION

|                                     | %         |
|-------------------------------------|-----------|
| LEVENOL® H&B                        | 1.0       |
| Deep Clean Fragrance <sup>(1)</sup> | 0.3 - 0.5 |
| Ethanol                             | 70.0      |
| Polymer <sup>(2)</sup>              | 0.45      |
| Triethanolamine                     | 0.07      |
| Deionized water                     | Up to 100 |

(1) For more information, please check Kao Deep Clean Fragrances Collection

(2) Carbopol® ETD 2020 supplied by Lubrizol

### TECHNICAL CHARACTERISTICS

### Kao Method

|                                  |                      |                        |
|----------------------------------|----------------------|------------------------|
| APPEARANCE (20°C):               | Clear viscous liquid | KCSA-258               |
| VISCOSITY BROOKFIELD (20°C,cPs): | 8400                 | KCSA-227               |
| pH (100%):                       | 6.4 approx.          | KCSA-014               |
| STABILITY TEST:                  | correct              | (1 months 40°C/RT/5°C) |

## RECOMENDED OPERATIVE METHOD

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Disperse the polymer in the water.  
Add Ethanol.  
Add Triethanolamine to neutralize the polymer.  
Add LEVENOL® H&B.  
Adjust pH.

## COMPONENTS

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**LEVENOL® H&B** (Glycereth-2 Cocoate, » 100% a.m.): non-ionic character. Extra-mild surfactant, with emulsifying properties. Skin emollient and moisturizing agent .Foam booster and thickening agent. Ecological product. It doesn't need any risk or safety warnings on its label. In hair rinse application increases the conditioning effect of the cationic component, giving smoothness. % of use in Hair Rinse = between 0.1 - 2%.

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.

Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

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Ref. C09002 (GMDE-7/2020)

(Edited March 2020. EU version)

GEL HAND SANITIZER



Enriching lives,  
in harmony with nature.

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**KCE REFERENCE : C-189**

## HAND SANITIZER ALCOHOL-FREE FOAMING

### DESCRIPTION

- Mild to the skin
- Total absence of drying-skin agents

### COMPOSITION

|                                | %          |
|--------------------------------|------------|
| OXIDET® L-75C                  | 3.0        |
| LEVENOL® H&B                   | 1.0        |
| TETRANYL® U                    | 0.6        |
| TETRANYL® BC-50 <sup>(1)</sup> | 0.2        |
| Deionized Water                | Up to 100% |

(1) 0.2% of TETRANYL® BC-50 can be substituted by 0.125% of TETRANYL® BC-80.

### TECHNICAL CHARACTERISTICS

|                     |              | Kao Method            |
|---------------------|--------------|-----------------------|
| APPEARANCE (20°C) : | Clear Liquid | KCSA-258              |
| pH (100%) :         | 5.9 approx   | KCSA-014              |
| STABILITY :         | Correct      | (1 month 40°C/RT/5°C) |

### RECOMMENDED OPERATIVE METHOD

- Mix all the ingredients in the indicated order.



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**KCE REFERENCE: C-191**

## FOAM HAND SANITIZER

WITH ALCOHOL

### DESCRIPTION

- Good foamability despite ethanol presence
- Re-moisturizing effect of LEVENOL® H&B

### COMPOSITION

%

|                 |            |
|-----------------|------------|
| LEVENOL® H&B    | 1.0        |
| TETRANYL® U     | 1.0        |
| Ethanol         | 70.0       |
| Deionized Water | Up to 100% |

### TECHNICAL CHARACTERISTICS

|                     |              | Kao Method            |
|---------------------|--------------|-----------------------|
| APPEARANCE (20°C) : | Clear Liquid | KCSA-258              |
| pH (100%) :         | 6.47 approx. | KCSA-014              |
| STABILITY :         | Correct      | (1 month 40°C/RT/5°C) |



**KCE REFERENCE: C-191**

## RECOMMENDED OPERATIVE METHOD

- Mix Deionized Water with Ethanol.
- Add the rest of the components while stirring

## COMPONENTS

**LEVENOL® H&B** (Glycereth-2 Cocoate, ≈ 100% a.m.): non-ionic character. Extra-mild surfactant, with emulsifying properties. Skin emollient and moisturizing agent .Foam booster and thickening agent. Ecological product. It doesn't need any risk or safety warnings on its label. In hair rinse application increases the conditioning effect of the cationic component, giving smoothness. % of use in Hair Rinse = between 0.1 - 2%

**TETRANYL® U** (Undecylenamidopropyltrimonium Methosulfate, ≈ 50% a.m.): cationic character. Fungicide and bactericide effect. Water soluble at room temperature. Compatible with other surfactants.

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