



# Hexiol

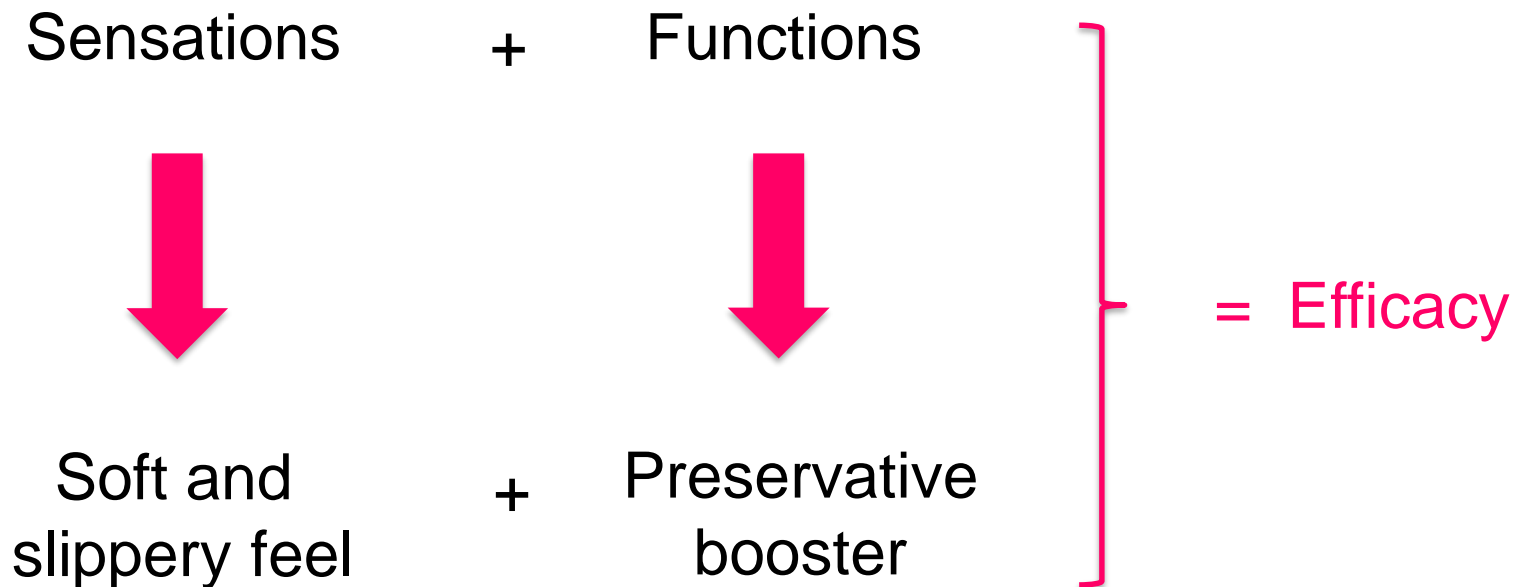
## Hexiol Extra Pure

**MINASOLVE**  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

green  
solving  
attitude.

# Multifunctional ingredients

What are they good for ? Why use them?



# Hexiol

## The KAWAII concept

If you are sensitive about your appearance ...

If you favour a perception of softness ...

If you like to keep some of your childhood innocence...

... then adopt the KAWAII attitude !

Blush from embarrassment with **KAWAII Blush** ...

Keep your natural complexion with **KAWAII Moisturizing Lotion** ...

Enjoy the sweet scent of **KAWAII Body Water** ...



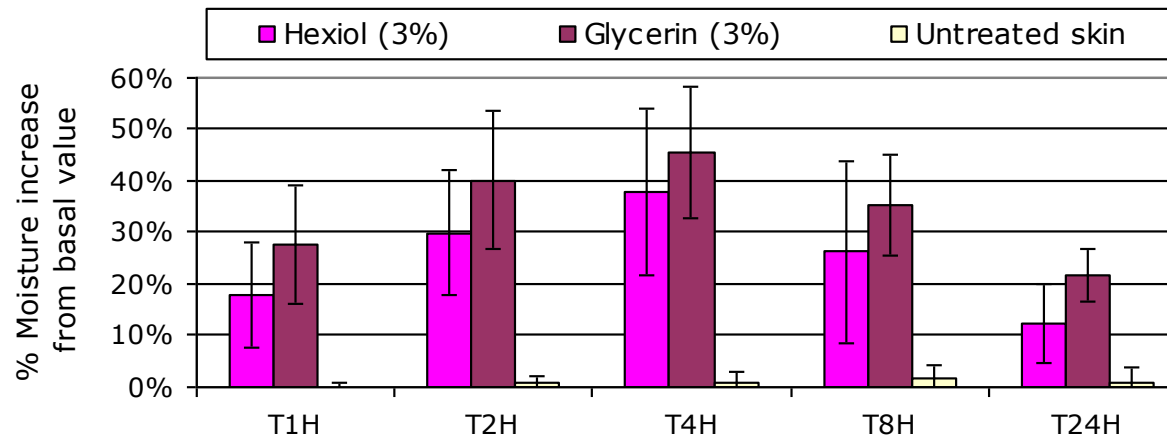
# Hexiol

## Emollient & Humectant

- **Emollient properties:**

➡ Soft and slippery feel: helps your cream melt onto your skin

- **Humectant properties:**

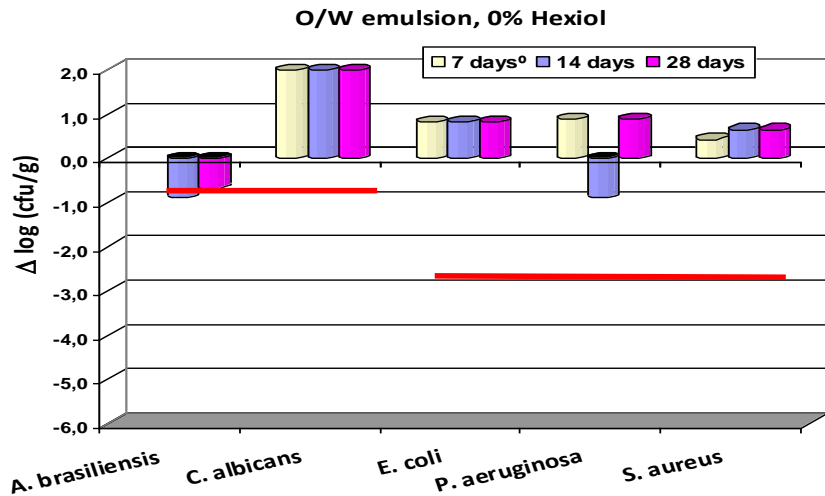


**Hexiol is an efficient skin moisturizer,  
with a long lasting effect similar to that of Glycerin.**

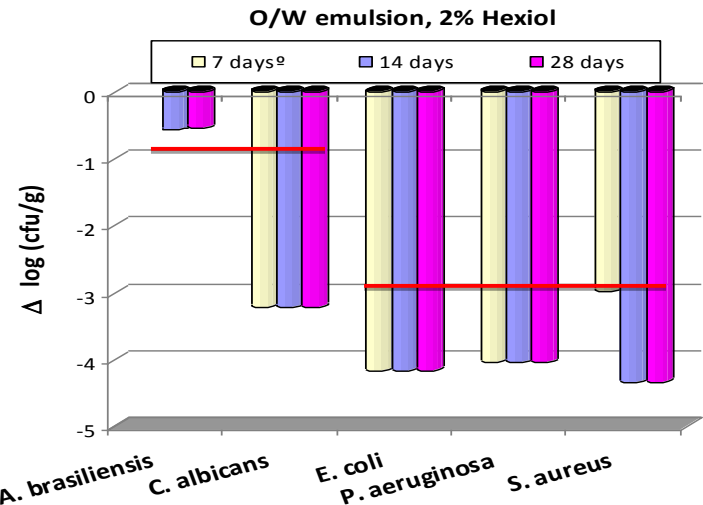
# Hexiol

## Formula Protection

O/W emulsion,  
protected by 2% Hexiol pH 5.4,  
subjected to Challenge Test, according to ISO 11930



<sup>°</sup> 7 days data not required by ISO 11930 for A. Brasiliensis



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\* results within experimental error of 0,5  $\Delta \log$  (cfu/g)

— ISO 11930 : reduction of germ count after 28 days (criteria A)

Hexiol can act as a standalone preservative

# Hexiol

## Formula Protection

### Formulation

Phase	Ingredient	INCI name	%
A	Water	Aqua	ad 100.0
	<i>Hexiol</i>	<i>1,2-Hexanediol</i>	<i>2.0</i>
	Xanthan Gum OC	Xanthan Gum	0.5
B	Emulgade PL 68/50	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Lipex Sheasoft	Butyrospermum Parkii (Shea) Butter	3.0
	Joboba Oil	Simmondsia Chinensis (Jojoba) Oil	3.0
	Hazelnut Oil	Corylus Avellana (Hazel) Seed Oil	3.0
C	Bioxan T70	Tocopherol	0.1
D	Sodium Hydroxide (10 % aq.)	Sodium Hydroxide (and) Aqua	ad pH 5.4

# Hexiol

## Formula Protection

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- **Pigment dispersion properties:**

- ➔ Facilitates pigments dispersion in color cosmetic formulations

- **Perfume solubilisation properties:**

- ➔ Helps solubilize perfumes even in aqueous formulations

- ➔ No ethanol needed

# Hexiol

## Hexiol EP (Odourless grade)

### Hexiol

### Hexiol Extra-Pure

<b>Appearance</b>	Colourless liquid	Colourless liquid
<b>Odour</b>	<b>Faint characteristic odour</b>	<b>Odourless</b>
<b>Solubility</b>	Miscible with water, ethanol, 1,2-alkanediols, caprylic/capric triglycerides, dicaprylyl ether	Miscible with water, ethanol, 1,2-alkanediols, caprylic/capric triglycerides, dicaprylyl ether
<b>INCI</b>	1,2-hexanediol	1,2-hexanediol
<b>% use</b>	0.3-3%	0.3-3%
<b>Formulation</b>	<ul style="list-style-type: none"> <li>- Incorporation into the aqueous phase, or at the post-emulsification stage for optimum efficacy of preservation</li> <li>- Non temperature sensitive</li> <li>- Non pH sensitive</li> </ul>	<ul style="list-style-type: none"> <li>- Incorporation into the aqueous phase, or at the post-emulsification stage for optimum efficacy of preservation</li> <li>- Non temperature sensitive</li> <li>- Non pH sensitive</li> </ul>



# Hexiol

## Kawaii concept

### Kawaii products

### Culture of cuteness in Japan

To keep some of your childhood innocence

**KAWAII  
Blush**



**KAWAII  
Body Water**



**KAWAII  
Moisturizing Lotion**



# Hexiol

## Kawaii Blush



### Manufacturing process:

- 1 - Stir phase A at 1500-2000 rpm during 15 min.
- 2 - Premix pigments and perfume in Hexiol.  
Add phase B to A. Stir at 2000 rpm during 10 min.
- 3 - Add ingredients from phase C.  
Stir at 2000 rpm during 10 min.
- 4 - Add phase D. Stir at 2000 rpm during 10 min.

### Properties and stability:

Aspect : Pink gel-cream  
pH : 6.0-6.3

Stable during 3 months at 8 ° C, 42 ° C and room temperature, as well as during centrifugation for 1hr at 20 ° C and 1500 g.

### Challenge test:

Meets criteria A / ISO 11930

Phase	Ingredients (INCI)	%
A	Water (Aqua)	87.90
	Covacryl MV60 (Sodium Polyacrylate)	1.60
B	Covapate Unired LC 3703 (Ricinus Communis Seed Oil (and) CI 15850)	0.10
	Pigments (Carmine (and) Titanium Dioxide (and) Mica)	0.05
	Perfume Himmlische Fruchten DF (Parfum)	0.05
	<b>Hexiol</b> <b>(1,2-Hexanediol)</b>	<b>1.00</b>
C	Orgasol 4000 EXD NAT COS Caresse (Nylon 6/12)	3.00
	Liponyl 20-LL (Nylon-12 (and) Lauroyl Lysine)	5.00
	Amihope LL (Lauroyl Lysine)	0.50
D	<b>EasySafe 9010</b> <b>(Phenoxyethanol (and) Ethylhexylglycerin)</b>	<b>0.80</b>

# Hexiol

## Kawaii Body water



### Manufacturing process:

- 1 - Add ingredients of phase A in the given order and mix until homogeneous.
- 2 - Prepare phase B and add it to the previous phase under stirring.
- 3 - Add ingredients of phase C in the given order and mix until homogeneous.
- 4 - Add the colour and mix until homogeneous.
- 5 - Adjust pH to 5.0 – 6.0 with Citric acid 50%.

### Properties and stability:

Aspect : Dark pink liquid  
pH :  $5.5 \pm 0.5$

Stable during 3 months at 8 ° C, 42 ° C and room temperature.

### Challenge test:

Meets criteria A / ISO 11930

Phase	Ingredients	%
A	Water (Aqua)	94.0
	Rewoteric AMC (Sodium Cocoamphoacetate)	0.5
B	<b>Hexiol (1,2-Hexanediol)</b>	<b>2.0</b>
	Perfume Himmlische Fruchten DF (Parfum)	0.3
C	Glycerin (Glycerin)	2.0
	Sodium Benzoate (Sodium Benzoate)	0.6
D	D&C Red 33 (1%) (Aqua (and) Red N° 33)	0.6
E	Citric acid (50%) (Aqua (and) Citric Acid)	qs

# Hexiol

## Kawaii Moisturizing lotion



### Manufacturing process:

- 1 - Add Xanthan Gum to the water and mix at 800 rpm for 25 min. or until homogeneous.  
Heat up to 75-80 ° C.
- 2 - Prepare phase B and heat up to 75-80 ° C.
- 3 - Add B to A under high shear, 3 min with an Ultra Turrax, then mix with a propeller mixer for 30 min at 1000 rpm. Slow down the mixing while cooling down.
- 4 - When T < 40 ° C, add Tocopherol and Hexiol.
- 5 - When room temperature has been reached, adjust pH to 5.0 – 6.0 with Citric acid 50%.

### Properties and stability:

Aspect : low viscosity cream-coloured emulsion  
pH : 5.5 ± 0.5

Stable during 3 month at 42 ° C and room temperature.

### Challenge test:

Meets criteria A / ISO 11930

Phase	Ingredients	%
A	Water ( <i>Aqua</i> )	83.4
	Xanthan Gum PC ( <i>Xanthan Gum</i> )	0.5
B	Emulgade PL 68/50 ( <i>Cetearyl Glucoside (and) Cetearyl Alcohol</i> )	5.0
	Lipex Sheasoft ( <i>Butyrospermum Parkii (Shea) Butter</i> )	3.0
	Jjoba Oil ( <i>Simmondsia Chinensis (Jojoba) Seed Oil</i> )	3.0
	Hazelnut Oil ( <i>Corylus Avellana (Hazel) Seed Oil</i> )	3.0
C	DL- $\alpha$ -Tocopherol (>97%) ( <i>Tocopherol</i> )	0.1
	<b>Hexiol (1,2-Hexanediol)</b>	<b>2.0</b>
D	Citric acid (50%) ( <i>Aqua (and) Citric Acid</i> )	qs

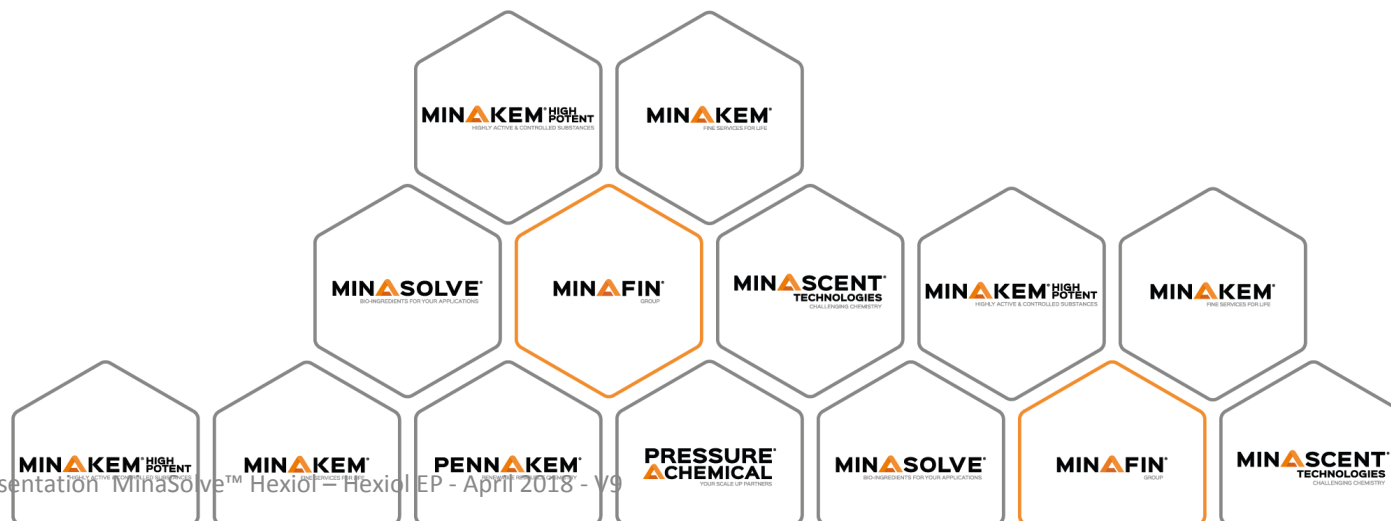
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solving  
attitude.**

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