

Step <sub>by</sub>  
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# SUNSOFT CLEANSING

How to formulate a premium cleansing application

# Oil Cleansing Basics

- Glides beautifully on skin
- Removes all traces of makeup and impurities
- Gently rinses away leaving skin refreshed
- No need harsh rubbing or rinsing
- No dryness or harshness



## Basic Ingredients

**Base oils**

**Lightweight or Cushioning**

**Surfactants**

**A ratio of 2 or 3 SUNSOFT**

## Facts

- ❖ Oils are essential to cleansing ability and overall texture. To enhance cleansing performance, you need lightweight base oils which have smaller molecular sizes.
- ❖ Surfactants like SUNSOFT are key to an oil-based cleanser's ability to effortlessly and gently remove makeup and impurities, quickly gliding on the skin and rinsing easily without leaving any residues, leaving skin feeling refreshed. A ratio of 2 or 3 SUNSOFT based on each HLB value enables you to achieve the optimal balance.
- ❖ Given that the hydrating final touch of SUNSOFT, you can come up with a lot more velvety-textured cleansing oils in conjunction with a dash of a natural oil (cushioning).

## Tip

■ **Total amount of SUNSOFT : 10~15%**

■ **Target \*HLB : 10.0 ~ 11.5**

\* HLB : Hydrophile-Lipophile Balance

# Oils and SUNSOFT combinations

## Polar oil base

	INGREDIENT	%
1	SUNSOFT Q-102H-C	15.0%
2	SUNSOFT Q-172Y-C	5.0%
3	Cetyl Ethylhexanoate	80.0%

## Non-polar oil base

	INGREDIENT	%
1	SUNSOFT Q-102H-C	8.0%
2	SUNSOFT Q-192Y-C	12.0%
3	Squalane	80.0%

## Natural oil base

	INGREDIENT	%
1	SUNSOFT Q-17B-C	14.0%
2	SUNSOFT Q-10D-C	6.0%
3	Caprylic/Capric Triglyceride	24.0%
4	Olive Oil	48.0%
5	Jojoba Seed Oil	8.0%

- 1) Polyglyceryl-6 Dicaprate (HLB : 10.2)
- 2) Polyglyceryl-10 Dioleate (HLB : 11.9)

+ Q-17D-C → More stable

- 1) Polyglyceryl-6 Dicaprate (HLB : 10.2)
- 2) Polyglyceryl-10 Diisoleate (HLB : 11.1)

- 1) Polyglyceryl-2 Sesquioleate (HLB : 5.3)
- 2) Polyglyceryl-2 Caprate (HLB : 9.5)

+ Q-81F-C → More refreshing

### Polar Oils

Ethylhexyl Palmitate  
Cetyl Ethylhexanoate  
Isononyl Isononanoate  
C12-15 Alkyl Benzoate  
Isopropyl Myristate  
Caprylic/Capric Triglyceride  
Triethylhexanoin etc.

### Non-Polar Oils

Squalane  
Mineral Oil  
Isododecane  
Hydrogenated Polyisobutene  
etc.

# Micellar Cleansing Water

- Removes even the toughest waterproof makeup
- Deep yet gentle cleansing with a few light wipes
- Keeps skin's natural moisture in ideal balance
- No dryness or tightness
- No need to rinse off

## Basic Ingredients

**Main surfactant**      **SUNSOFT Q-8H-C**

**Co-surfactants**      **SUNSOFT Q-102H-C, Q-12Y-C**

## Facts

- ❖ Micellar cleansing water has long been popular for leaving the skin feel clean and refreshed without any greasy residue. But, its lack of cleansing performance is a key drawback.
- ❖ The tour de force combination of Q-8H-C and Q-102H-C dramatically reduce surface tension between skin and even the toughest waterproof makeup, for gentle removal with a few light wipes.
- ❖ Micellar cleansing water is highly surfactant dependent, increasing skin irritant risk. Less irritating SUNSOFT, a non-ionic surfactant, is exceptional at maintaining adequate skin hydration by trapping amino acids after cleansing, keeping skin's natural moisture in ideal balance.

## Tip

- **Perfect cleansing performance : Q-8H-C & Q-102H-C**
- **More enhanced stability & transparency : Q-12Y-C or ionic surfactants**



## Micellar Cleansing Water

	INGREDIENT	INCI NAME	%	
1	SUNSOFT Q-8H-C	POLYGLYCERYL-6 CAPRYLATE	3.0	..... a
2	SUNSOFT Q-102H-C	POLYGLYCERYL-6 DICAPRATE	0.3	..... b
3	SUNSOFT Q-12Y-C	POLYGLYCERYL-10 LAURATE	0.7	..... c
4	Purified Water	WATER	Up to 100	

■ Can be formulated as cleansing wipes, foam cleanser, cleansing gel & cream

- a. Perfect cleansing on even “**Waterproof mascara**”
- b. Superior removal on “**W/O foundation**” (Silicone film) when combined with a.
- c. Enhanced “**Transparency & Stability**”

### SUNSOFT’s comparative advantages vs. competitors

PEG-6, PEG-8 Caprylic/Capric Glycerides

Polysorbate 20, 60, 80

Polyglyceryl-4 Caprate

**VS**

**SUNSOFT Q-8H-C · Q-102H-C  
· Q-12Y-C**

- ❖ Perfect cleansing performance
- ❖ Low irritation & enhanced hydration
- ❖ Even more stable at various temperatures

# Cleansing Balm



- Velvety and soothing textured balm that melts when applied
- Removes all traces of makeup and impurities
- Smooths easily on skin and works quickly
- Can be used even with oils that have low molecular weight
- No need for harsh rubbing or rinsing

featured by **Taiset OG-C**

## Basic Ingredients

**Base oils**

**Lightweight or Cushioning**

**Surfactants**

**A ratio of 2 or 3 SUNSOFT**

**Texture controller**

**TAISET OG-C & Waxes**

## Facts

- ❖ If you still prefer using polyethylene, you can effortlessly create a cleansing balm by just adding it to the various SUNSOFT oil cleansing guide formulations. But given the growing concerns surrounding polyethylene, TAIYO also offers much safer, more natural cleansing balm alternatives.
- ❖ TAISET OG-C, a novel breakthrough aesthetic modifier, enables you to create a velvety cleansing balm with superior melting properties. A light touch can easily transform it from soft sherbet-like surface consistency to a smoothly gliding liquid oil.

## Tip

- **Total amount of SUNSOFT : 10~15%**
- **Recommended amount of TAISET OG-C : 3 ~ 5%**

# Cleansing Balm

	INGREDIENT	INCI NAME	%	
1	SUNSOFT Q-17D-C	POLYGLYCERYL-2 OLEATE	5.0	..... a
2	SUNSOFT Q-10D-C	POLYGLYCERYL-2 CAPRATE	5.0	..... b
3	SUNSOFT Q-81F-C	POLYGLYCERYL-6 CAPRYLATE	5.5	..... c
4	2-Ethyhexyl Palmitate	ETHYLHEXYL PALMITATE	22.6	
5	Caprylic/Capric Triglyceride	CAPRYLIC/CAPRIC TRIGLYCERIDE	47.9	
6	Microcrystalline Wax	MICROCRYSTALLINE WAX	5.0	..... d
7	TAISET OG-C	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	3.0	..... e
8	Glyceryl Tribehenate	TRIBEHENIN	3.0	..... f
9	SUNSOFT No.8100-C	GLYCERYL BEHENATE	3.0	..... g

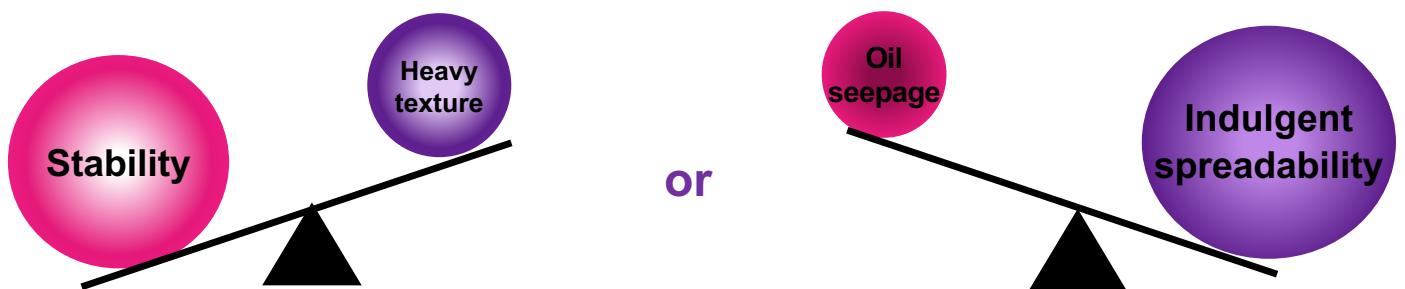
a.& b. Main surfactants for “Gentle yet deep cleansing”

c. Co-surfactant for “More refreshing rinseability”

d. Major component of “Hard-gel structure”

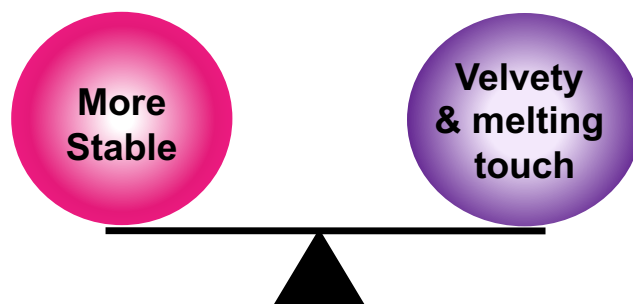
f.& g. Supporting components of “Hard-gel structure”

## e. Aesthetic modifiers



■ There is always a trade off between stability and silky texture in cleansing balms.

## Taiset OG-C



■ It maintains both stability and velvety, melting texture without compromise.