

GUIDE FORMULATIONS





ADEKA – WHO WE ARE

ADEKA Corporation is a Japanese chemical company with more than a century of experience in the cosmetics and detergents market, having nowadays more than 12 offices, 4 R&D and 15 production sites worldwide.

ADEKA is a global company with business organizations in Japan, Korea, Taiwan, Thailand, Singapore, China, India, USA and Europe. With global R&D centers, responsive sales and logistics organizations and a worldwide distribution network, ADEKA offers a broad portfolio of products to customers worldwide.

ADEKA has been present in the surfactants market in Europe for more than 20 years now. In 1999, ADEKA centralized their European sales activities in a new head office, ADEKA Europe GmbH, in Düsseldorf, Germany.

ADEKA has a dedicated Research & Development group equipped with latest technology and modern facilities for testing and evaluation of additives performances, which help to provide innovative solutions to the market.



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The complexity of the formulations in this guide is explained using the symbols of spatulas. The complexity ranges from one spatula (very easy) to 4 spatulas (advanced).

Complexity:	Complexity:	Complexity:	Complexity:
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1 Spatula = very easy	2 Spatulas = easy	3 Spatulas = moderate	4 Spatulas = advanced





LIQUID FOUNDATION

LFD002C

CHARACTERISTICS

• The combination of TAISET OG-C and SUNOIL DDI(MB) improves the dispersibility of the powders and creates a highly-uniform thin film, resulting in the prevention of color transfer of foundation.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-10 DECAISOSTEARATE	4.0	Dispersion	SUNOIL DDI(MB)
2	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	5.0	Thickening	TAISET OG-C
3	POLYGLYCERYL-6 OCTASTEARATE, GLYCERYL BEHENATE	2.0	Emulsification, Stabilization	TAISET 50-C(MB)
4	POLYGLYCERYL-6 POLYRICINOLEATE	5.0	W/O Emulsification	SUNSOFT NO.818SK-C(MB)
5	IRON OXIDES, OCTYLDODECANOL, JOJOBA ESTERS, TRIHYDROXYSTEARIN	4.8	Makeup powder	IRON OXIDE DISPERSION
6	TITANIUM DIOXIDE, OCTYLDODECANOL, JOJOBA ESTERS, TRIHYDROXYSTEARIN, ALUMINA, SILICA	1.68	Makeup powder	TITANIUM OXIDE DISPERSION
7	DISTEARDIMONIUM HECTORITE	1.2	Oil	DISTEARDIMONIUMHECTORITE
8	CYCLOPENTASILOXANE	15.81	Oil	DIMETHYLCYCLOPOLYSILOXANE
9	DIMETHICONE/PHENYL VINYL DIMETHICONE CROSSPOLYMER, DIPHENYLSILOXY PHENYLTRIMETHICONE	10.0	Texture improver	(DIMETHICONE/ PHENYLVINYLDIMETHICONE) CROSSPOLYMER, DIPHENYLSILOXYPHENYLTRIMETHICONE
10	ETHYLHEXYL METHOXYCINNAMATE	7.0	UV absorber	PARAMETHOXYCINNAMATE2-ETHYLHEXYL
11	SILICA	2.4	Texture improver	SILICA
12	PENTYLENE GLYCOL	2.0	Emulsification	1,2-PENTANEDIOL
13	GLYCERIN	10.0	Emulsification	GLYCERIN
14	GLYCERIN	q.s	pH adjuster	PH BUFFER AGENT
15	WATER	29.11	Solvent	PURIFIED WATER

PROPERTIES

- Appearance: Light beige soft cream
- Viscosity (B Type viscometer, No.3x12 rpm, 30 sec.): 65,000 75,000 mPa·s
- \bullet Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve 1-13 at about 70-80 °C.
- 2. Mix and dissolve 14,15 at about 70 80 °C.
- 3. Using a dispersion mill, drop [2] to [1] little by little and blend for 3 minutes at 8,000 rpm.
- 4. Cool down the solution to 30 °C.





MOISTURE CREAM

MSC001C

CHARACTERISTICS

- SUNSOFT Q-182S-C(MB) has a high water-holding capacity allowing superior hydration effects.
- The α-gel formed by SUNSOFT Q-182S-C(MB) and higher alcohols enhances the stability of this emulsion.
- SUNOIL DDI(MB) has a powerful moisture holding capacity, leaving skin feel soft and smooth.
- TAISET 50-C(MB) gives a rich and luxurious texture to this formulation while enhancing its stability at high temperatures.

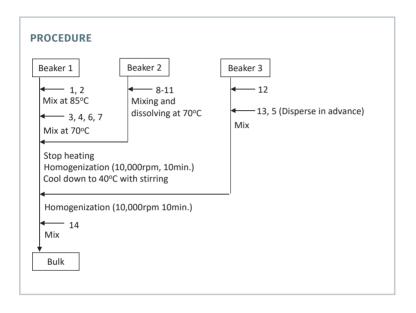
	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	WATER	45.52	Solvent	PURIFIED WATER
2	POLYGLYCERYL-10 DISTEARATE	4.5	Emulsification	SUNSOFT Q-182S-C(MB)
3	CETEARYL ALCOHOL	2.5	Emulsification	CETYL / STEARYL ALCOHOL
4	GLYCERIN	5.0	Moisturizing	GLYCERIN
5	BUTYLENE GLYCOL	5.0	Moisturizing	1,3-BUTANEDIOL
6	DIVERSE	0.15	Preservative	PRESERVATIVE
7	DIVERSE	0.02	pH adjuster	PH BUFFER AGENT
8	CAPRYLIC / CAPRIC TRIGLYCERIDE	14.0	Oil	CAPRYLIC/CAPRICTRIGLYCERIDE
9	POLYGLYCERYL-10 DECAISOSTEARATE	3.0	Oil, Emollient	SUNOIL DDI(MB)
10	GLYCERYL BEHENATE, POLYGLYCERYL-6 OCTASTEARATE	3.0	Emulsification, Stabilization	TAISET 50-C(MB)
11	OLEA EUROPAEA (OLIVE) FRUIT OIL	10.0	Oil	OLIVE FRUITS OIL
12	BENTONITE	10.0	Thickening	BENTONITE (5% AQ.)
13	XANTHAN GUM	0.3	Thickening	XANTHAN
14	FRAGRANCE	0.01	Fragrance	PERFUME

PROPERTIES

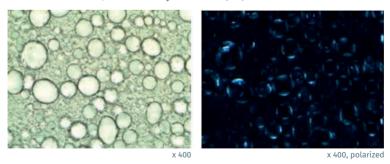
- Appearance: Milky white hard cream
- pH: 6.0 6.5
- Viscosity (Model BL Viscometer): 20,000 50,000 mPa·s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C







Stabilization of the O/W emulsion by TAISET 50-C(MB)



The results of microscope observation through transmitted light and polarized light in the same field have shown that TAISET 50-C(MB) is surrounding oil droplets while contributing to the enhanced stability of this emulsion





O/W MILK

OWM003C

CHARACTERISTICS

- Petroleum-free O/W skincare milk lotion composed of 100% natural ingredients.
- · By having less amount of surfactant and adding Sunsoft APF(G)-C(MB), this formulation gives a refreshing sensorial perception without
- The combination of Sunsoft APF(G)-C(MB) and Q-182S-C(MB) keeps its stability and low viscous texture.

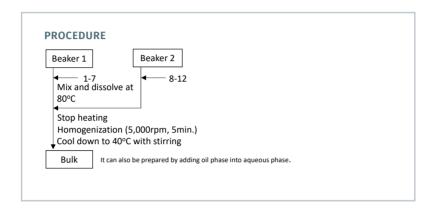
	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	APRICOT KERNEL OIL POLYGLYCERYL-6 ESTERS	1.5	Emulsification, Moisturizing	SUNSOFT APF(G)-C(MB)
2	POLYGLYCERYL-10 DISTEARATE	0.5	Emulsification	SUNSOFT Q-182S-C(MB)
3	GLYCERYL CAPRYLATE	0.1	Antibacterial	GLYCERYLCAPRYLATE
4	CAPRYLIC/CAPRIC TRIGLYCERIDE	4.0	OIL	CAPRYLIC/CAPRIC TRIGLYCERIDE
5	SIMMONDSIA CHINENSIS (JOJOBA),SEED OIL	4.0	Oil	JOJOBA SEED OIL
6	SQUALANE	1.0	Oil	VEGETABLE SQUALANE
7	GLYCERIN	10.0	Moisturizing	GLYCERIN
8	GELLAN GUM	0.01	Thickening	GELLANGUM
9	XANTHAN GUM	0.7	Thickening	XANTHAN
10	PENTYLENE GLYCOL	3.0	Moisturizing, Antibacterial	1,2-PENTANEDIOL
11	PROPANEDIOL	4.0	Emulsification	1,3-PROPYLENE GLYCOL
12	WATER	71.19	Base material	PURIFIED WATER

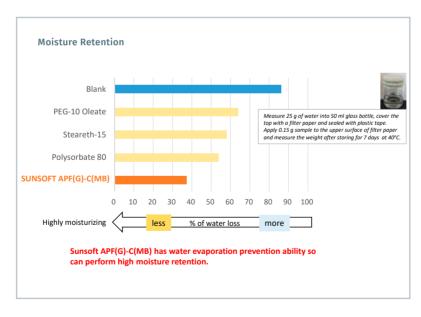
PROPERTIES

- · Appearance:Milky white lotion













ISO 16128 = 65.5 %

BATH MILK

BTM101C

CHARACTERISTICS

- · Quickly disperses into the bath due to its low viscosity, and bath water turns into thin milky white.
- · Exhibits superior stability owing to fine emulsification derived by liquid crystal emulsification method.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	WATER	UP TO 100	Solvent	PURIFIED WATER
2	GLYCERIN	15.0	Emulsification	GLYCERIN
3	METHYLPARABEN	0.1	Preservative	PRESERVATIVE
	PROPYLPARABEN	0.05	Preservative	PRESERVATIVE
4	MINERAL OIL	30.0	Oil	LIQUID PARAFFIN
5	POLYGLYCERYL-10 DIISOSTEARATE	6.0	Emulsification	SUNSOFT Q-192Y-C(MB)
6	POLYGLYCERYL-10 LAURATE	2.0	Emulsification	SUNSOFT Q-12Y-C(MB)

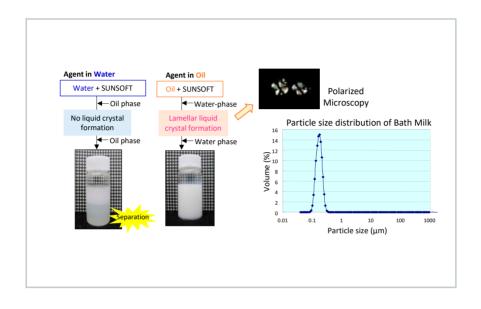
PROPERTIES

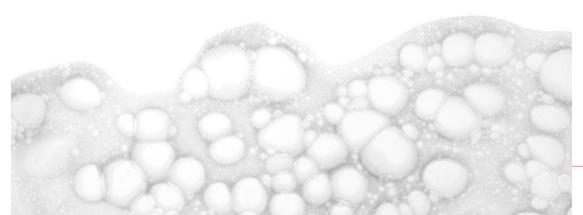
- Appearance: Milky white liquid
- pH: 4.0 5.5
- Viscosity (Model BL Viscometer, No.2 x 60 rpm, 30 sec): 100 mPa·s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve 1-3 at about 70 °C.
- 2. Mix and dissolve 4-6 at about 70 °C.
- 3. Under agitation by a paddle mixer (300 rpm), add [1] into [2] quickly (within approx. 30 sec.).
- 4. Cool down the mixture to 30 °C with continuous stirring.













SUNSCREEN CREAM O/W

OSCOOSC

CHARACTERISTICS

- Reef-friendly mineral sunscreen formulation with highly safe ingredients. Available for sensitive skin.
- The film formed by TAISET OG-C provides excellent water and sweat resistant property after applied on the skin.
- The combination use of TAISET OG-C and SUNOIL DDI(MB) enhances UV protection while allowing silky coating perception owing to the improved dispersibility of powders.
- SUNOIL DDI(MB) enables micro fine particles to be quickly dispersed and doesn't leave white residue upon applying this O/W sunscreen cream.
- TAISET OG-C allows for sunscreens speedy & fast adhesion to the skin, which can be directly linked to less rubbing with minimal efforts.
- SPF 30 (Measured by SPF Analyzer, UV-2000S, Labsphere).

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	30.0	Thickening	AMMONIUM ACRYLOYLDIMETHYLTAURATE/ VP COPOLYMER (2% AQ.)
2	HYDROXYPROPYLMETHYLCELLULOSESTEAROXYETHER	0.2	Thickening	HYDROXYPROPYL METHYLCELLULOSE STEAROXY ETHER
3	PENTYLENE GLYCOL	2.0	Emulsification	1,2-PENTANEDIOL
4	XANTHANGUM	0.2	Thickening	XANTHAN
5	WATER	39.3	Solvent	PURIFIED WATER
6	POLYGLYCERYL-10 DECAISOSTEARATE	1.0	Dispersion	SUNOIL DDI(MB)
7	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	1.0	Thickening	TAISET OG-C
8	POLYGLYCERYL-6 OCTASTEARATE, GLYCERYL BEHENATE	0.5	Emulsification, Stabilization	TAISET 50-C(MB)
9	ZINC OXIDE, DIMETHICONE, DIPHENYLSILOXY PHENYL TRIMETHICONE, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, POLYGLYCERYL-2 ISOSTEARATE	20.0	UV filter	ZINC OXIDE DISPERSION
10	TITANIUM DIOXIDE, HYDRATED SILICA, ALUMINUM HYDROXIDE, HYDROGEN DIMETHICONE, ETHYLHEXYL PALMITATE	1.0	UV filter	TITANIUM OXIDE DISPERSION
11	DIMETHICONE/PHENYL VINYL DIMETHICONE CROSSPOLYMER, DIPHENYLSILOXY PHENYL TRIMETHICONE	2.0	Texture improver	(DIMETHICONE/ PHENYLVINYLDIMETHICONE) CROSSPOLYMER, DIPHENYLSILOXYPHENYLTRIMETHICONE
12	POLYMETHYL METHACRYLATE	1.0	Texture improver	ALKYL POLYACRYLATE
13	POLYGLYCERYL-10 STEARATE	1.0	Emulsification	SUNSOFT Q-18S-C(MB)
14	GLYCERYL STEARATE SE	0.8	Emulsification	SUNSOFT NO.30-C

PROPERTIES

- · Appearance: Milky white soft cream
- Viscosity (Model BL Viscometer, No.3x12 rpm, 30 sec): 55,000 75,000 mPa·s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C
- *1: Zinc oxide, Isostearicacid, Polyhydroxystearicacid, Liquid isoparaffin
- *2: Titanium oxide, Aluminum hydroxide, Isostearicacid, Diisostearylmalate, Liquid isoparaffin

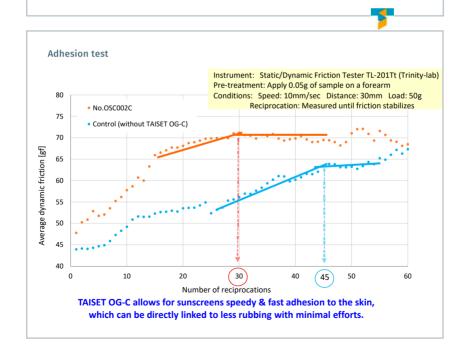
PROCEDURE

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- 1. Mix and dissolve 1-5 at about 85 °C.
- 2. Mix and dissolve 6-14 at about 85 °C.
- 3. Using a dispersion mill, drop [2] to [1] little by little and blend for 3 minutes at 3000 rpm.
- 4. Cool down the solution to 30 °C.



Sample: OSC002C vs Control (TAISET OG-C in OSC002C was replaced by a competitor's oil thickener) Apply each sample at 0.2g/cm² on a glass plate and dry well, then soaked in water with gentle stirring The film was flaked off, it means maintaining the water-resistant layer. TAISET OG-C gives long-lasting effect on sunscreen while forming water-resistant film.







SUNSCREEN CREAM W/O

WSC002C

CHARACTERISTICS

- · Reef-friendly mineral sunscreen formulation with highly safe ingredients. Available for sensitive skin.
- TAISET OG-C enhances the formulation stability while thickening oil phase.
- SUNOIL DDI(MB) enables micro fine particles to be quickly dispersed and doesn't leave white residue upon applying this O/W sunscreen
- The combination use of TAISET OG-C and SUNOIL DDI(MB) enhances UV protection while allowing silky coating perception owing to the improved dispersibility of powders.

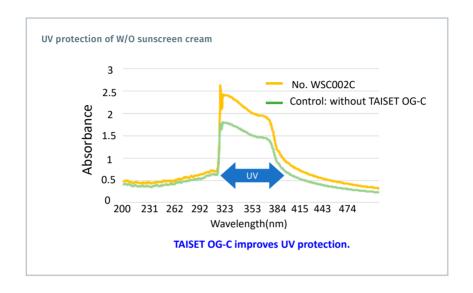
	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-10 DECAISOSTEARATE	5.0	Dispersion	SUNOIL DDI(MB)
2	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	3.0	Thickening	TAISET OG-C
3	POLYGLYCERYL-6 OCTASTEARATE,GLYCERYL BEHENATE	2.0	Emulsification, Stabilization	TAISET 50-C(MB)
4	POLYGLYERYL-5 POLYRICINOLEATE	5.0	W/O Emulsification	SUNSOFT NO.818R-C
5	ZINC OXIDE, DIMETHICONE, DIPHENYLSILOXY PHENYL TRIMETHICONE, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, POLYGLYCERYL-2 ISOSTEARATE	24.0	UV filter	ZINC OXIDE DISPERSION
6	TITANIUM DIOXIDE, HYDRATED SILICA, ALUMINUM HYDROXIDE, HYDROGEN DIMETHICONE, ETHYLHEXYL PALMITATE	16.0	UV filter	TITANIUM OXIDE DISPERSION
7	C12-15 ALKYL BENZOATE	11.25	Oil	C12-15 ALKYL BENZOATE
8	DIMETHICONE/PHENYL VINYL, DIMETHICONE CROSSPOLYMER, DIPHENYLSILOXY PHENYLTRIMETHICONE	10.0	Texture improver	(DIMETHICONE / PHENYLVINYL DIMETHICONE) CROSSPOLYMER, DIPHENYLSILOXYPHENYLTRIMETHICONE
9	POLYMETHYL METHACRYLATE	2.0	Texture improver	ALKYL POLYACRYLATE
10	PENTYLENE GLYCOL	1.0	Emulsification	1,2-PENTANEDIOL
11	GLYCERIN	10.0	Emulsification	GLYCERIN
12	GLYCERIN	q.s	pH adjuster	PH BUFFER AGENT
13	WATER	10.75	Solvent	PURIFIED WATER

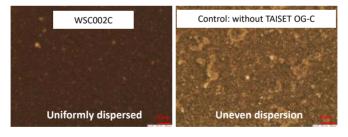
PROPERTIES

- · Appearance: Milky white soft cream
- Viscosity (Model BL Viscometer, No.3x12 rpm, 30 sec): 10,000 20,000 mPa-s Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C
- *1: Zinc oxide, Isostearicacid, Polyhydroxystearicacid, Liquid isoparaffin
- *2: Titanium oxide, Aluminum hydroxide, Isostearicacid, Diisostearylmalate, Liquid isoparaffin

- 1. Mix and dissolve 1-11 at about 85 °C.
- 2. Mix and dissolve 12, 13 at about 85 °C.
- 3. Using a dispersion mill, drop [2] to [1] little by little and blend for 3 minutes at 5000 rpm.
- 4. Cool down the solution to 30 °C.







TAISET OG-C enhances dispersibility of powders and forms highly-uniform film.





CLEANSING BALM

TCB003

CHARACTERISTICS

- Unlike conventional balm cleansers, this velvety-and-super-melting cleansing balm powered by Taiset OG-C is simply transformable with a light finger touch from balm-like hardness to liquid oil in a wink.
- Enchanting spreadability and very short play time can guarantee no need of harsh rubbing.
- · Polyethylene-free arrangement. Use spatula.
- · Make-up dirt can be rinsed away in the most gentle and refreshing way while showing off dramatic 'Milkiness'.
- It will never strip your sensitive skin of moisture.
- Taiset OG-C doesn't discriminate oils, even covering low molecular weight type.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-2 OLEATE	5.0	Removing make-up	SUNSOFT Q-17D-C(MB)
2	POLYGLYCERYL-2 CAPRATE	5.0	Removing make-up	POLYGLYCERYL-2 CAPRATE
3	POLYGLYCERYL-6 CAPRYLATE	5.5	Improving refreshment	SUNSOFT Q-81F-C(MB)
4	ETHYLHEXYL PALMITATE	5.5	Oil	2-ETHYLHEXY PALMITATE
5	CAPRYLIC/CAPRIC TRIGLYCERIDE	47.9	Oil	CAPRYLIC/CAPRICTRIGLYCERIDE
6	MICROCRYSTALLINE WAX	5.0	Wax	MICROCRYSTALLINE WAX
7	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	3.0	Wax gelling agent	TAISET OG-C
8	TRIBEHENIN	3.0	Wax	GLYCERYLTRIBEHENATE
9	GLYCERYL BEHENATE	3.0	Gelling auxiliary	SUNSOFT NO.8100-C(MB)

PROPERTIES

- · Appearance: White balm
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Heat and dissolve all the above (1-9) at 80-90 °C
- 2. Fill in a container.
- 3. Leave to stand until cool.







CLEANSING OIL GEL

COG001C

CHARACTERISTICS

- Highly transparent oil cleansing gel with thixotropic properties.
- TAISET OG-C has a high thickening effect, and does not impair the feeling of washing.
- It exerts a good rinsing effect with Sunsoft and also improves the stability of the formulation.
- Improves viscosity by combining SUNOIL DDI and glycerin.
- · Easy to spread and has excellent massage properties.
- Octyldodecanol and C12-15 Alkyl Benzoate improves transparency and stabilize the formulation.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-6 DICAPRATE	3.0	Removing make-up	SUNSOFT Q-102H-C(MB)
2	POLYGLYCERYL-10 DIOLEATE	13.0	Removing make-up	SUNSOFT Q-172Y(G)-C(MB)
3	POLYGLYCERYL-10 PENTAOLEATE	1.5	Removing make-up	SUNSOFT Q-175S(G)-C(MB)
4	POLYGLYCERYL-20 OCTADECABEHENATE/HYDROXYSTEARATE	0.5	Thickening	TAISET OG-C
5	POLYGLYCERYL-10 DECAISOSTEARATE	1.0	Thickening auxiliary	SUNOIL DDI(MB)
6	OCTYLDODECANOL	1.0	Crystallization inhibition	OCTYLDODECANOL
7	C12-15 ALKYL BENZOATE	5.0	Crystallization inhibition	C12-15 ALKYL BENZOATE
8	CETYL ETHYLHEXANOATE	61.5	Oil	CETYL 2-ETHYL HEXANOATE
9	HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL	5.0	Oil	HELIANTHUS ANNUUS SEED OIL
10	GLYCERIN	8.0	Emulsification	GLYCERIN
11	DIPROPYLENE GLYCOL	0.5	Emulsification	DPG

PROPERTIES

- Appearance: Light yellow semitransparent viscous gel
- Viscosity: 3,500 5,000 mPa·s (Model BL Viscometer, No.3x12 rpm, 30 sec, Measured the day after preparation.)
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve all the above (1-11) at 80-90 °C
- 2. Cool down the solution to 30 °C with continuous stirring.







CLEANSING GEL CREAM

TCC002C

CHARACTERISTICS

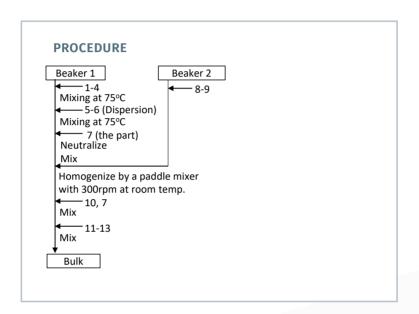
- While SUNSOFT Q-8H-C(MB) and Q-102H-C(MB) are pulling and breaking down the layers of make-up, all traces of them crumble into fragments.
- Rinses away in the most gentle and refreshing way, leaving skin soft and hydrated.
- · Quickly dissolves and disperses into make-up/impurities.
- · Shows powerful cleansing performance being equivalent to cleansing oils.

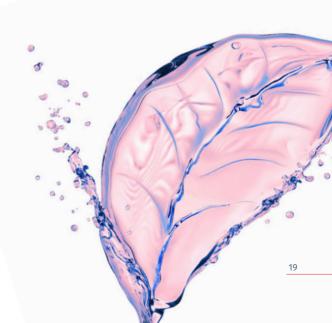
	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-6 CAPRYLATE	3.2	Removing make-up	SUNSOFT Q-8H-C(MB)
2	POLYGLYCERYL-6 DICAPRATE	4.8	Removing make-up	SUNSOFT Q-102H-C(MB)
3	GLYCERIN	20.0	Moisturizing	GLYCERIN
4	WATER	49.915	Solvent	PURIFIED WATER
5	BUTYLENE GLYCOL	1.0	Moisturizing	1,3-BUTANEDIOL
6	XANTHAN GUM	0.1	Thickening	XANTHAN
7	POTASSIUM HYDROXIDE	0.2	Neutralization	CAUSTIC POTASH (10% AQ.)
8	ETHYLHEXYL PALMITATE	5.0	Oil	2-ETHYLHEXYL HEXADECANOATE
9	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	0.3	Thickening	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER
10	CARBOMER	15.0	Thickening	CARBOXYVINYLPOLYMER (2%AQ.)
11	EDTA-2NA	0.005	Chelating	CHELATING AGENT
12	ETHYLHEXYL METHOXYCINNAMATE	0.05	stabilizing	ETHYLHEXYL METHOXYCINNAMATE
13	METHYLPARABEN	0.1	Preservative	PRESERVATIVE
14	PHENOXYETHANOL	0.3	Preservative	PRESERVATIVE
15	FRAGRANCE	0.03	Fragrance	FRAGRANCE

PROPERTIES

- Appearance: Milky white soft cream
- pH: 5.2 6.2
- Viscosity (Model BL Viscometer): 25000 35000 mPa·s
 Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C











CLEANSING LOTION

TCL009C

CHARACTERISTICS

- With a few light wipes of a cotton ball, you can remove even the toughest waterproof make-up.
- Cleansing performance can be enhanced in the combination of 3 different types of SUNSOFT.
- · No need to rinse it off after using this cleansing lotion.
- It can keep skin's natural moisture in ideal balance.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	POLYGLYCERYL-6 CAPRYLATE	3.0	Removing make-up	SUNSOFT Q-8H-C(MB)
2	POLYGLYCERYL-6 DICAPRATE	0.3	Removing make-up	SUNSOFT Q-102H-C(MB)
3	POLYGLYCERYL-10 LAURATE	0.7	Improving temperature stability	SUNSOFT Q-12Y-C(MB)
4	WATER	95.895	Solvent	PURIFIED WATER
5	METHYLPARABEN	0.1	Preservative	PRESERVATIVE
6	CITRIC ACID	0.001	pH adjuster	PH BUFFER AGENT
7	SODIUM CITRATE	0.004	pH adjuster	PH BUFFER AGENT

PROPERTIES

- Appearance: Clear liquid
- pH: 5.0 -6.0
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve 1-5 at about 70 °C.
- 2. Cool down the solution to 30 °C with continuous stirring.
- 3. Add 6 into [2] until dissolved.







NON-SILICONE HAIR MASK

THP002C

CHARACTERISTICS

- · This is a non-silicone formulation.
- SUNSOFT TAP-C(MB) gives a smooth and even feel to the entire hair from roots to tips with better manageability.
- The distinctive light yet smooth texture powered by SUNSOFT TAP-C(MB) can last till the very next day.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	BEHENTRIMONIUM CHLORIDE	2.5	α-gel	BEHENTRIMONIUM CHLORIDE(80%)
2	ISOPENTYLDIOL	5.0	Base material, Emulsification	ISOPENTYLDIOL
3	GLYCERIN	20.0	Base material, Emulsification	GLYCERIN
4	CHELATING	Q.S	Chelating	CHELATING AGENT
5	PRESERVATIVE	Q.S	Preservative	PRESERVATIVE
6	WATER	UP TO 100	Solvent	PURIFIED WATER
7	STEARYL ALCOHOL	5.0	α-gel	STEARYL ALCOHOL
8	HYDROGENATED POLYDECENE	1.0	Oil	HYDROGENATED POLYDECENE
9	APRICOT KERNEL OIL POLYGLYCERYL-6 ESTERS	2.0	Conditioning	SUNSOFT TAP-C(MB)
10	FRAGRANCE	Q.S	Fragrance	FRAGRANCE

PROPERTIES

- · Appearance: Milky white cream
- pH: 4.5 5.5
- Viscosity (B Type viscometer, No.6x30 rpm, 30 sec.): 10.000 20.000 mPa-s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve 1-6 at 85 °C, add 7 and mix evenly.
- 2. Cool down [1] to 60 °C with continuous stirring. Add 8 and mix well.
- 3. Add 9 as well and mix evenly.
- 4. Cool down to ambient while stirring.
- 5. Add 10 and mix evenly.







NON-SILICONE HAIR CONDITIONER CATIONIC SURFACTANTS FREE

THP003C

CHARACTERISTICS

- · Silicone and cationic surfactants free formulation.
- SUNSOFT TAP-C(MB) and SUNOIL DDI(MB) gives a smooth and even feel to the entire hair from roots to tips with better manageability.
- The distinctive light yet smooth texture powered by SUNSOFT TAP-C(MB) can last till the very next day.

	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	SODIUM METHYL STEAROYL TAURATE	2.8	α-gel	SODIUM METHYL STEAROYLTAURATE
2	ISOPENTYLDIOL	6.5	Base material, Emulsification	ISOPENTYLDIOL
3	EDTA-2NA	0.05	Chelating	CHELATINGAGENT
4	METHYLPARABEN	0.20	Preservative	PRESERVATIVES
5	CITRIC ACID	0.20	pH adjuster	CITRICACID (10%)
6	WATER	81.25	Solvent	PURIFIED WATER
7	CETEARYL ALCOHOL	6.00	α-gel	CETEARYL ALCOHOL
8	HYDROGENATED POLYDECENE	1.00	Oil	HYDROGENATED POLYDECENE
9	POLYGLYCERYL-10 DECAISOSTEARATE	1.00	Emollient	SUNOIL DDI(MB)
10	APRICOT KERNEL OIL POLYGLYCERYL-6 ESTERS	1.00	Conditioning	SUNSOFT TAP-C(MB)
11	FRAGRANCE	Q.S	Fragrance	FRAGRANCE

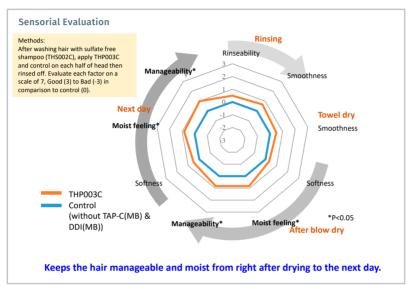
PROPERTIES

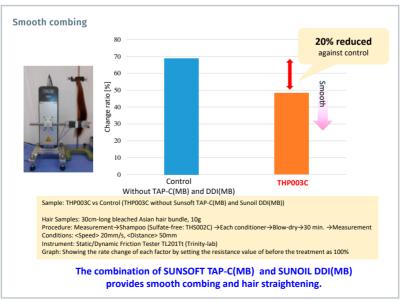
- · Appearance: Milky white cream
- pH: 4.5 5.5
- Viscosity (B Type viscometer, No.6x30 rpm, 30 sec.): 2,000 4,000 mPa·s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C

- 1. Mix and dissolve 1-6 at 85 °C, add 7 and mix evenly.
- 2. Cool down [1] to 60 °C with continuous stirring. Add 8, 9, 10 and mix well respectively.













SHAMPOO SULFATE FREE

THS002C

CHARACTERISTICS

- This is a sulfate-free shampoo with the hair treatment ingredient, SUNSOFT APF(G)-C(MB) allowing soft and smooth sensorial effects for hairs.
- SUNSOFT M-12J shows a superior sebum removability.
- The combination of SUNSOFT M-12J and SUNSOFT APF(G)-C(MB) reduces the hair breakage and damage during hair-washing..

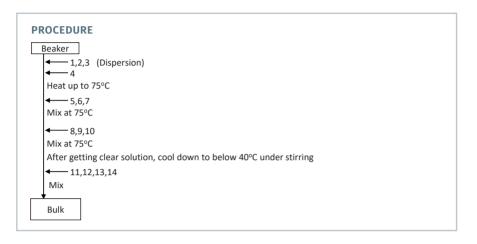
	INCI NAME	WT-%	FUNCTION	INGREDIENT NAME
1	BUTYLENE GLYCOL	1.0	Emulsification	1,3-BUTANEDIOL
2	GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	0.3	Conditioning	O-[2-HYDROXY-3-(TRIMETHYLAMMONIO) PROPYL] GUAR GUM CHLORIDE
3	POLYQUATERNIUM-10	0.1	Conditioning	O-[2-HYDROXY-3-(TRIMETHYLAMMONIO) PROPYL] HYDROXYETHYLCELLULOSECHLORIDE
4	WATER	38.45	Solvent	PURIFIED WATER
5	TEA-COCOYL GLUTAMATE	44.0	Washing	TRIETHANOLAMINEN-COCOYL-L-GLUTAMATE SOLUTION
6	SODIUM LAUROAMPHOACETATE	6.9	Washing	SODIUM 2-UNDECYL-1-HYDROXYETHYL IMIDAZOLINIUM
7	POLYGLYCERYL-10 LAURATE	2.0	Washing, Foaming, Emulsification	SUNSOFT M-12J
8	APRICOT KERNEL OIL POLYGLYCERYL-6 ESTERS	1.0	Improve softness and smoothness, Reduce hair damage	SUNSOFT APF(G)-C(MB)
9	GLYCERYL CAPRATE	3.0	Improve foam retention	GLYCERYL CAPRATE
10	PEG-120 METHYL GLUCOSE TRIISOSTEARATE	2.0	Thickening	PEG-120 METHYL GLUCOSE TRIISOSTEARATE
11	POLYQUATERNIUM-7	0.5	Conditioning	DIMETHYLDIALLYLAMMONIUM CHLORIDE / ACRYLAMIDE COPOLYMER SOLUTION
12	FRAGRANCE	0.3	Fragrance	FRAGRANCE
13	EDTA-1NA	0.05	Chelating	CHELATING AGENT
14	METHYLPARABEN	0.1	Preservative	PRESERVATIVE
15	PHENOXYETHANOL	0.3	Preservative	PRESERVATIVE

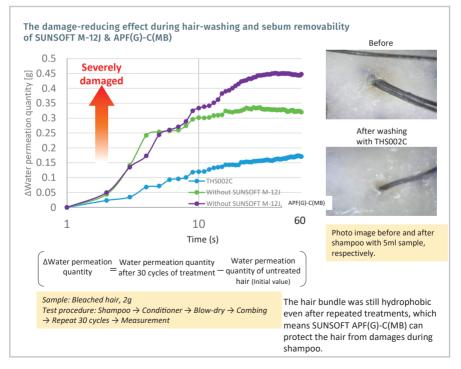
PROPERTIES

- Appearance: Yellow clear viscous liquid
- pH: 5.0 6.0
- Viscosity (Model BL Viscometer, rotor No.2 x 12 rpm): 2,500 3,500 mPa·s
- Stability: 3 months at 5 °C, 40 °C and ambient, 1 month at 50 °C











OUR PRODUCTS IN COSMETICS, PERSONAL CARE & HOUSEHOLD

TAIYO KAGAKU

Taiyo founded in 1946 is a well-known global company with three business divisions that serve a wide range of needs in food, cosmetics and chemical industries, having 8 offices and 7 manufacturing facilities globally and about 1,000 full-time employees worldwide.

Taiyo has three business divisions supplying more than 2,000 products to help customers create a wider choice of safe and reliable ingredient.

Interface Solutions Division: as Japan's first pioneer in food emulsifiers, Taiyo has continued to develop the technologies cultivated in the food industry, expanding the food grade safe and reliable ingredients to cosmetics and chemical industries.

Nutrition division: Creating new markets and contributing to society by exploring the scientific possibilities of natural ingredients

Natural ingredient division: Supplying safe and reliable natural ingredients to food and cosmetics industries.

Taiyo, as a research and development company, has over 150 researches works to develop groundbreaking new products that are safe and reliable. Our team includes more than 30 oversea researchers who have been invited to work with Taiyo through our post-doctorate program. Taiyo uses a solution-driven approach to help customers develop new products and improve existing ones to generate even more value for the future.

Our customers are responsible for the choice of Raw Materials they incorporate into their formulas. We show our customers on technical information to the best of our knowledge under the given circumstances. The information contained in our documentation are given in good faith. We have no undertakings nor obligations on our information about stability or safety effects nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. We assume no responsibility for the choice of such raw materials and final composition which are marketed by our customers even if as they may contain one or more of our product. ADEKA expressly disclaims any implied warranty of fitness for a particular use. We recommend to our customer to check with appropriate authorities the regulatory status of the raw material.

NOTICE









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