

# PRODUCT LIST

## 1 PERFORMANCE CHEMICALS FOR SYNTHETIC RESIN & RUBBER INDUSTRIES AND PAINT, INK & PIGMENT INDUSTRIES

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5. Mold Releasing Agents
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3. Foam Stabilizers and Thickeners for Shampoos
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## 7 PERFORMANCE CHEMICALS FOR COSMETICS SUCH AS HAIR-CARE, SKIN-CARE AND MAKE-UP

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3. Conditioning Agents/Styling Agents
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6. Antibacterial/Anticeptic

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Chemical**

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## PERFORMANCE CHEMICALS FOR COSMETICS SUCH AS HAIR-CARE, SKIN-CARE AND MAKE-UP

### 1. Foaming Agents/Detergents/Foam Improvers

- 1-1. Anionic Surfactants
- 1-2. Amphoteric Surfactants
- 1-3. Nonionic Surfactants
- 1-4. Foam Improvers

### 2. Emulsifying Agent/Solubilizing Agent/Dispersing Agent

- 2-1. Nonionic Surfactants

### 3. Conditioning Agents/Styling Agents

- 3-1. Cationic Surfactants
- 3-2. Cationic Resins

### 4. Thickeners/Gelling Agents/Film-Forming Agents

- 4-1. Water-Soluble Thickeners and Gelling Agents
- 4-2. Film-Forming Agents

### 5. Moisturizing Agents/Moistening Agents

- 5-1. Polyethyleneglycol
- 5-2. Polypropyleneglycol
- 5-3. Polyoxyethylene Polyoxypropylene Derivatives

### 6. Antibacterial/Anticeptic

- 6-1. Alkyl Ammonium Salt-Based
- 6-2. Phenoxyethanol
- 6-3. Alkanediol Derivatives

### IMPORTANT :

Before handling these products, refer to the Safety Data Sheet for recommended protective equipment, and detailed precautionary and hazards information

# SANYO CHEMICAL PRODUCT OUTLINE

Grouping by Products

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Grouping by Use

<b>1</b>	<b>Hair-Care Shampoo/Body Shampoo/Face Wash</b>	27
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1-1. Anionic Surfactants

<Ether Carboxylate Surfactants>

These surfactants have excellent hard-water resistance, low irritation to the skins and eyes, and excellent foaming properties even under weak acidity.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Evaporation Residue (wt%)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015					
BEAULIGHT LCA	$C_{12}H_{25}O(CH_2CH_2O)_nCH_2COONa$ n≐3	SODIUM LAURETH-4 CARBOXYLATE, WATER*1 月桂醇聚醚-4 羧酸钠, 水*1	✓	✓		White to Pale Yellow Paste	93	7.0 (1wt%, Diluted with Water)	• Ether carboxylate surfactants derived from natural higher alcohols.
BEAULIGHT LCA-30D		SODIUM LAURETH-4 CARBOXYLATE, WATER*1 月桂醇聚醚-4 羧酸钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	28	7.0 (1wt%, Diluted with Water)	• Diluted products of BEAULIGHT LCA. • Ether carboxylate surfactants derived from natural higher alcohols.
BEAULIGHT LCA-25N		SODIUM LAURETH-4 CARBOXYLATE, WATER*1 月桂醇聚醚-4 羧酸钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	28	6.5 (10wt%, Diluted with Water)	• Ethylene oxide adducts with narrow molecular weight distribution. • Ether carboxylate surfactants derived from natural higher alcohols. • Excellent foaming properties & hard-water resistance.
BEAULIGHT LCA-25F		SODIUM LAURETH-4 CARBOXYLATE, WATER*1 月桂醇聚醚-4 羧酸钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	28	6.5 (10wt%, Diluted with Water)	• Preservative-free. • Ether carboxylate surfactants derived from natural higher alcohols. • Ethylene oxide adducts with narrow molecular weight distribution. • Excellent foaming properties & hard-water resistance.
BEAULIGHT ECA	$C_{13}H_{27}O(CH_2CH_2O)_nCH_2COONa$ n≐3	SODIUM TRIDECETH-4 CARBOXYLATE, WATER*1 十三烷醇聚醚-4 羧酸钠, 水*1	✓	✓		Pale Yellow Liquid	98	7.0 (1wt%, Diluted with Water)	• Ether carboxylate surfactants derived from synthetic higher alcohols.
BEAULIGHT LCA-25NH	$C_{12}H_{25}O(CH_2CH_2O)_nCH_2COOH$ n≐3	LAURETH-4 CARBOXYLIC ACID, WATER*1 月桂醇聚醚-4 羧酸, 水*1	✓	✓		Pale Yellow Liquid	95	3.5 (1wt%, Diluted with Water)	• Ethylene oxide adducts with narrow molecular weight distribution. • Ether carboxylate surfactants derived from natural higher alcohols. • Non-neutralized surfactants. • Enables to select neutralizers according to users' purpose.
BEAULIGHT LCA-H	$C_{12}H_{25}O(CH_2CH_2O)_nCH_2COOH$ n≐4	LAURETH-5 CARBOXYLIC ACID, WATER*1 月桂醇聚醚-5 羧酸, 水*1	✓	✓		Pale Yellow Liquid	96	3.0 (1wt%, Diluted with Water)	• Ether carboxylate surfactants derived from natural higher alcohols. • Non-neutralized surfactants. • Enables to select neutralizers according to users' purpose.
BEAULIGHT SHAA	$C_{10}H_{21}CHCH_2OCH_2COONa$   OH	SODIUM LAURYL GLYCOL CARBOXYLATE, WATER*1 月桂基甘醇羧酸钠, 水*1	✓*2	✓		Pale Yellow Liquid	29	9.5 (Undiluted)	• Excellent foaming properties and foam stability even under weak acidity. • Not listed in the Chemical Substances Control Law (Japan): This product can be used for the cosmetic use only.

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

\*2 As for the use of these products, please contact our Sales & Marketing Dept.



<Sulfosuccinate-Based Surfactants>

These surfactants are for general use as base materials for hair-care products.  
They prevent excessive degreasing and have high foaming properties.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Evaporation Residue (wt%)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015					
BEAULIGHT ESS	$\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{CO}-\underset{\substack{  \\ \text{CH}_2-\text{COONa}}}{\text{CH}}-\text{SO}_3\text{Na}$ (R: C <sub>12</sub> H <sub>25</sub> ~C <sub>14</sub> H <sub>29</sub> )    n≧2	DISODIUM C12-14 PARETH-2 SULFOSUCCINATE, WATER*1 C12-14 链烷醇聚醚-2 磺基琥珀酸酯二钠, 水*1	-	✓		Colorless to Pale Yellow Liquid	46	7.0 (2wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Has low irritation to the skins and eyes.</li><li>• Has excellent foaming properties and prevents excessive degreasing.</li></ul>
BEAULIGHT LSS	$\text{C}_{12}\text{H}_{25}\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{CO}-\underset{\substack{  \\ \text{CH}_2-\text{COONa}}}{\text{CH}}-\text{SO}_3\text{Na}$ n≧1	DISODIUM LAURETH SULFOSUCCINATE, WATER*1 月桂醇聚醚磺基琥珀酸酯二钠, 水*1	✓	✓		White Paste	36	6.0 (1wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Has excellent foaming properties even under weak acidity.</li><li>• Capable of refreshingly washing up.</li></ul>
BEAULIGHT SSS	$\text{C}_{12}\text{H}_{25}\text{OCO}-\underset{\substack{  \\ \text{CH}_2-\text{COONa}}}{\text{CH}}-\text{SO}_3\text{Na}$	DISODIUM LAURYL SULFOSUCCINATE, WATER*1 月桂醇磺基琥珀酸酯二钠, 水*1	✓	✓		White to Pale Yellow Paste	47	7.0 (2wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Has excellent foaming properties even under weak acidity.</li><li>• Capable of refreshingly washing up.</li></ul>
BEAULIGHT A-5000	$\text{C}_{11}\text{H}_{23}\text{CONHCH}_2\text{CH}_2\text{O}(\text{CH}_2\text{CH}_2\text{O})_n-\underset{\substack{  \\ \text{CH}_2-\text{COONa}}}{\text{CO}-\text{CH}}-\text{SO}_3\text{Na}$ n≧5	DISODIUM LAURAMIDO PEG-5 SULFOSUCCINATE, WATER*1 月桂酰胺基 PEG-5 磺基琥珀酸酯二钠, 水*1	✓	✓		Pale Yellow Liquid	36	6.0 (2wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Suitable for base materials used for weak acid shampoos/face washes.</li><li>• Has low irritation to the skins and eyes.</li><li>• Prevents excessive degreasing.</li></ul>

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

<Sodium Polyoxyethylene Alkyl Ether Sulfate/Alkyl Sulfate Surfactants>

These surfactants are for general use as the base materials for foaming/cleaning agents used for hair-care products.  
These surfactants have high foaming properties and excellent detergency.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Evaporation Residue (wt%)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015					
BEAULIGHT NA-25S	$\text{C}_{12}\text{H}_{25}\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{SO}_3\text{Na}$ n≧2.5	SODIUM LAURETH SULFATE, WATER*1 月桂醇聚醚硫酸酯钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	26	7.0 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Ethylene oxide adducts with narrow molecular weight distribution.</li><li>• Has lower sodium lauryl sulfate contents and lower irritation to the skins and eyes than the conventional products.</li><li>• Has excellent solubilization ability &amp; detergency.</li></ul>
SANDET EN	$\text{C}_{12}\text{H}_{25}\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{SO}_3\text{Na}$ n≧2	SODIUM LAURETH SULFATE, WATER*1 月桂醇聚醚硫酸酯钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	31	7.5 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Sodium polyoxyethylene alkyl ether sulfate surfactants derived from natural higher alcohols.</li><li>• Has excellent solubility to water &amp; hard-water resistance.</li></ul>
SANDET ET	$\text{C}_{12}\text{H}_{25}\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{SO}_3\text{H}-\underset{\substack{  \\ \text{CH}_2\text{CH}_2\text{OH}}}{\text{N}-\text{CH}_2\text{CH}_2\text{OH}}$ n≧4	TEA-LAURETH SULFATE, WATER*1 月桂醇聚醚硫酸酯 TEA 盐, 水*1	✓	✓		Colorless to Pale Yellow Liquid	37	6.5 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Sodium polyoxyethylene alkyl ether sulfate surfactants derived from natural higher alcohols.</li><li>• Has excellent solubility to water &amp; hard-water resistance.</li></ul>
SANDET END	$\text{C}_n\text{H}_{2n+1}\text{O}(\text{CH}_2\text{CH}_2\text{O})_m\text{SO}_3\text{Na}$ n=12~15 m≧3	SODIUM C12-15 PARETH SULFATE, WATER*1 C12-15 烷醇聚醚硫酸钠, 水*1	✓	✓		Colorless to Pale Yellow Liquid	27	7.5 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Sodium polyoxyethylene alkyl ether sulfate surfactants derived from synthetic higher alcohols.</li><li>• Has excellent solubility to water &amp; hard-water resistance.</li><li>• Generates fine and soft foams.</li></ul>

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

1-2. Amphoteric Surfactants

<Acetic Acid Betaine-Types/Imidazoline-Types>

These surfactants exert high foaming properties and foam stability.  
These surfactants have low irritation to the skins and are usable in combination with both inonic and nonionic surfactants.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Evaporation Residue (wt%)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015					
LEBON HC-30W	$\begin{array}{c} \text{CH}_3 \\   \\ \text{RCONHCH}_2\text{CH}_2\text{CH}_2\text{N}^+-\text{CH}_2\text{COO}^- \\   \\ \text{CH}_3 \end{array}$ (R: Coconut fatty acid residue)	COCAMIDOPROPYL BETAINE, WATER*1 椰油酰胺丙基甜菜碱, 水*1	✓	✓		Pale Yellow Liquid	34	5.5 (Undiluted)	• Derivatives of hydrogenated coconut oil. • Little change in color over time & has low odor. • Thickens by combination with anionic surfactants.
LEBON 2000		COCAMIDOPROPYL BETAINE, WATER*1 椰油酰胺丙基甜菜碱, 水*1	✓	✓		Pale Yellow Liquid	36	6.0 (10wt%, Diluted with Water)	• Thickens by combination with anionic surfactants.
LEBON 2000HG		COCAMIDOPROPYL BETAINE, WATER*1 椰油酰胺丙基甜菜碱, 水*1	✓	✓		Pale Yellow Liquid	31	5.0 (Undiluted)	• Desalted type of LEBON 2000. • Thickens by combination with anionic surfactants.
LEBON 2000L	$\begin{array}{c} \text{CH}_3 \\   \\ \text{C}_{11}\text{H}_{23}\text{CONHCH}_2\text{CH}_2\text{CH}_2\text{N}^+-\text{CH}_2\text{COO}^- \\   \\ \text{CH}_3 \end{array}$	LAURAMIDOPROPYL BETAINE, WATER*1 月桂酰胺丙基甜菜碱, 水*1	✓	✓		Pale Yellow Liquid	36	6.0 (10wt%, Diluted with Water)	• Derivatives of lauric acid. • Thickens by combination with anionic surfactants.
LEBON MY-30W	$\begin{array}{c} \text{CH}_3 \\   \\ \text{C}_{13}\text{H}_{27}\text{CONHCH}_2\text{CH}_2\text{CH}_2\text{N}^+-\text{CH}_2\text{COO}^- \\   \\ \text{CH}_3 \end{array}$	MYRISTAMIDOPROPYL BETAINE, WATER*1 肉豆蔻酰胺丙基甜菜碱, 水*1	✓	✓		Pale Yellow Liquid	34	6.0 (10wt%, Diluted with Water)	• Derivatives of Myristic acid. • Thickens by combination with anionic surfactants.
LEBON LD-36	$\begin{array}{c} \text{CH}_3 \\   \\ \text{C}_{12}\text{H}_{25}\text{N}^+-\text{CH}_2\text{COO}^- \\   \\ \text{CH}_3 \end{array}$	LAURYL BETAINE, WATER*1 月桂基甜菜碱, 水*1	✓	✓		Colorless to Pale Yellow Liquid	41	7.0 (1wt%, Diluted with Water)	• Thickens by combination with anionic surfactants.
LEBON CIB	$\begin{array}{c} \text{CH}_2\text{CH}_2\text{OH} \\   \\ \text{RCONHCH}_2\text{CH}_2\text{N} \\   \\ \text{CH}_2\text{COONa} \end{array}$ (R: Coconut fatty acid residue)	SODIUM COCOAMPHOACETATE, WATER*1 椰油酰两性基乙酸钠, 水*1	✓	✓		Pale Yellow to Yellow Liquid	43	6.5 (2wt%, Diluted with Water)	• Alleviates irritation to the skins and eyes. • Capable of imparting a moist feeling to hairs after washing. • Has high compatibility with other surfactants. • Thickens by combination with anionic surfactants.

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

<Amino Acid-Type Surfactants>

These surfactants have high foaming properties for hair-care/body-wash.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Evaporation Residue (wt%)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015					
LEBON APL	$\text{C}_{12}\text{H}_{25}\text{NHCH}_2\text{CH}_2\text{COONa}$	SODIUM LAURAMINOPROPIONATE, WATER*1 月桂氨基丙酸钠, 水*1	✓	✓		Pale Yellow Liquid	29	6.0 (10wt%, Diluted with Water)	• Amino acid-type amphoteric surfactants derived from laurylamine.
LEBON APL-D	$\text{RNHCH}_2\text{CH}_2\text{COONa}$ (R: Coconut oil alkyl group)	SODIUM COCAMINOPROPIONATE, WATER*1 -	✓	-		Yellow Liquid	29	6.0 (10wt%, Diluted with Water)	• Amino acid-type amphoteric surfactants composed of coconut oil alkyl group.

\*1 The product diluted with water of product may have carry-over components. For more details, please contact our Sales & Marketing Dept.

1-3. Nonionic Surfactants

<Alkanolamide of Fatty Acid>

These surfactants are effective as thickeners and foaming agents for shampoos/face washes/body soaps.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015				
PROFAN EXTRA24	$\begin{array}{c} \text{CH}_2\text{CH}_2\text{OH} \\   \\ \text{RCON} \\   \\ \text{CH}_2\text{CH}_2\text{OH} \\ \text{(R: Coconut fatty acid residue)} \end{array}$	COCAMIDE DEA 椰油酰胺 DEA	✓	✓		Pale Yellow Liquid	10.0 1wt%[Ethanol : Water=1 : 9(wt/wt)]	• For General use as auxiliary agents for the detergents for the purpose of foam stabilizing/thickening/foaming.
PROFAN 128 EXTRA		COCAMIDE DEA 椰油酰胺 DEA	✓	✓		Pale Yellow to Yellowish Brown Liquid	10.0 1wt%[Ethanol : Water=1 : 9(wt/wt)]	• Other type of PROFAN EXTRA24: keeps in a liquid state throughout the year and improves handleability.
PROFAN AA-62EX	$\begin{array}{c} \text{CH}_2\text{CH}_2\text{OH} \\   \\ \text{C}_{11}\text{H}_{23}\text{CON} \\   \\ \text{CH}_2\text{CH}_2\text{OH} \end{array}$	LAURAMIDE DEA 月桂酰胺 DEA	✓	✓		White Solid	10.0 (1wt%, Diluted with Water)	• Effective as thickeners/foaming agents/feeling improving agents.
PROFAN SME	$\text{C}_{17}\text{H}_{35}\text{CONHCH}_2\text{CH}_2\text{OH}$	STEARAMIDE MEA 硬脂酰胺 MEA	✓	✓		Pale Yellow Flake	10.0 1wt%[Ethanol : Water=1 : 9(wt/wt)]	• Effective as pearlescent auxiliary.
PROFAN AB-20	$\text{RCONHCH}_2\text{CH}_2\text{OH}$ (R: Coconut fatty acid residue)	COCAMIDE MEA 椰油酰胺 MEA	✓	✓		White Flake	9.0 1wt%[Ethanol : Water=1 : 9(wt/wt)]	• Has especially high thickening effects. • Effective as pearlescent auxiliary.

1-4. Foam Improvers

<Foam Improvers>

Foaming agents and defoaming agents.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Number-Average Molecular Weight*1	pH (Sample Concentration)	Uses & Features
		Export to China	Registered on IECIC2015					
FROTHMEISTER HG-375	PPG-75-PEG-300 HEXYLENE GLYCOL PPG-75-PEG-300 己二醇	✓	✓		Colorless Liquid	14,000	8.0 (5wt%, Diluted with Water)	• Generates fine foams by combination with anionic surfactants which are used for shampoos & face washes. • Generates foams having more resilient characteristic by combination with amino acid-type surfactants.
FROTHMEISTER SP-10	PPG-10 SORBITOL PPG-10 山梨醇	✓	✓		Colorless Liquid	690	6.5*2	• Generates fine foams by combination with anionic surfactants which are used for shampoos & face washes. • Generates foams having more resilient characteristic by combination with amino acid-type surfactants.
FROTHMEISTER GC-48	PPG-24-GLYCERETH-24 PPG-24-甘油聚醚-24	✓	✓		Colorless Liquid	2,500	7.0 (50wt%, Diluted with Water)	• Generates fine foams by combination with anionic surfactants which are used for shampoos & face washes. • Generates foams having more resilient characteristic by combination with polyoxyethylene alkyl ether sulfate.
NEWPOL LB-285	PPG-20 BUTYL ETHER PPG-20 丁醚	✓	✓		Colorless Liquid	1,170	6.5*3	• Has defoaming effects for water-soluble preparations. • Also enables to use as hair conditioning agents.
NEWPOL LB-625	PPG-33 BUTYL ETHER PPG-33 丁醚	✓	✓		Colorless Liquid	1,870	7.0*3	• Has defoaming effects for water-soluble preparations. • Also enables to use as hair conditioning agents.
NEWPOL LB-1715	PPG-40 BUTYL ETHER PPG-40 丁醚	✓	✓		Colorless Liquid	2,390	8.0*2	• Has defoaming effects for water-soluble preparations. • Also enables to use as hair conditioning agents.

\*1 Calculated from hydroxyl value

\*2 Dissolved 10g testing sample in 60mL of methanol/water mixed solution (volume ratio: 10/1) and measured

\*3 Dissolved 10g testing sample in 60mL of isopropanol/water mixed solution (volume ratio: 10/6) and measured

2-1. Nonionic Surfactants

<Polyoxyethylene Alkyl Ethers>

These products are surfactants which are formed by adding polymerizations of ethylene oxide to natural higher alcohols.  
These surfactants are widely effective as emulsifying agents/solubilizing agents/dispersing agents.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	HLB	Uses & Features
			Export to China	Registered on IECIC2015				
EMULMIN NL-70	C <sub>12</sub> H <sub>25</sub> O(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> H	LAURETH-7 月桂醇聚醚-7	✓	✓		Colorless Liquid to Paste	12.4	• Foaming agents/feeling improving agents/moistening agents. • Has excellent solubilization ability & detergency.
EMULMIN NL-80		LAURETH-8 月桂醇聚醚-8	✓	✓		Colorless Liquid to Paste	13.0	• Detergents/emulsifying agents/solubilizing agents.
EMULMIN NL-90		LAURETH-9 月桂醇聚醚-9	✓	✓		White Solid to Paste	13.6	• Detergents/emulsifying agents/solubilizing agents.
EMULMIN NL-100		LAURETH-10 月桂醇聚醚-10	✓	✓		White Solid to Paste	14.0	• Detergents/emulsifying agents/solubilizing agents.
EMULMIN NL-110		LAURETH-11 月桂醇聚醚-11	✓	✓		White Solid to Paste	14.4	• Detergents/emulsifying agents/solubilizing agents.
EMULMIN CC-100	C <sub>16</sub> H <sub>33</sub> O(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> H	CETETH-10 鲸蜡醇聚醚-10	✓	✓		White to Pale Yellow Wax	13.3	• Hydrophilic emulsifying agents.
EMULMIN CC-150		CETETH-15 鲸蜡醇聚醚-15	✓	✓		White to Pale Yellow Wax	15.1	• Hydrophilic emulsifying agents/solubilizing agents.
EMULMIN CC-200		CETETH-20 鲸蜡醇聚醚-20	✓	✓		White to Pale Yellow Wax	15.7	• Hydrophilic emulsifying agents/solubilizing agents.
SANNONIC SS-70	RO(CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> H (R: C <sub>12</sub> H <sub>25</sub> ~ C <sub>14</sub> H <sub>29</sub> )	(C12-14) PARETH-7 C12-14 链烷醇聚醚-7	✓	✓		Pale Yellow Liquid	12.1	• Detergents/moistening agents.
SANNONIC SS-90		(C12-14) PARETH-9 C12-14 链烷醇聚醚-9	✓	✓		Pale Yellow Liquid	13.2	• Detergents/moistening agents.
SANNONIC SS-120		(C12-14) PARETH-12 C12-14 链烷醇聚醚-12	✓	✓		Pale Yellow Liquid	14.5	• Detergents/moistening agents.

<Sorbitan Fatty Acid Esters>

These surfactants are highly safe and have excellent emulsifying properties and emulsion stability.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	HLB	Uses & Features
			Export to China	Registered on IECIC2015				
IONET S-20		SORBITAN COCOATE 山梨坦椰油酸酯	✓	✓		Yellowish Brown Liquid	8.6	• Lipophilic emulsifying agents. • For general use as emulsifying agents in combination with hydrophilic emulsifying agents: IONET/EMULMIN products.
IONET S-60V		SORBITAN STEARATE 山梨坦硬脂酸酯	✓	✓		Pale White Yellow Granule	4.7	• Lipophilic emulsifying agents. • For general use as emulsifying agents in combination with hydrophilic emulsifying agents: IONET/EMULMIN products.
IONET S-80		SORBITAN OLEATE 山梨坦油酸酯	✓	✓		Yellowish Brown Liquid	4.3	• Lipophilic emulsifying agents. • For general use as emulsifying agents in combination with hydrophilic emulsifying agents: IONET/EMULMIN products.
IONET S-85		SORBITAN TRIOLEATE 山梨坦三油酸酯	✓	✓		Yellowish Brown Liquid	1.8	• Lipophilic emulsifying agents. • For general use as emulsifying agents in combination with hydrophilic emulsifying agents: IONET/EMULMIN products. • W/O emulsifying agents.
IONET T-20C*1		PEG-20 SORBITAN COCOATE PEG-20 失水山梨醇椰油酸酯	✓	✓		Yellow Liquid	16.7	• Used as emulsifying agents in combination with other lipophilic nonionic surfactants (IONET S products) for the cosmetics in cream shape.
IONET T-60V		POLYSORBATE 60 聚山梨醇酯-60	✓	✓		Yellow Paste	14.9	• Used as emulsifying agents in combination with other lipophilic nonionic surfactants (IONET S products) for the cosmetics in cream shape.
IONET T-80V		POLYSORBATE 80 聚山梨醇酯-80	✓	✓		Yellow Liquid	15.0	• Used as emulsifying agents in combination with other lipophilic nonionic surfactants (IONET S products) for the cosmetics in cream shape.

\*1 As for the use of this product, please contact our Sales & Marketing Dept.

<Glycerol Fatty Acid Esters>

These surfactants are used in combination with hydrophilic/lipophilic emulsifying agents which are highly safe.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Uses & Features
			Export to China	Registered on IECIC2015			
TG-C		GLYCERYL STEARATE 甘油硬脂酸酯	✓	✓		Pale Yellow Flake	• Lipophilic emulsifying agents. • For general use as emulsifying agents in combination with hydrophilic emulsifying agents: IONET/EMULMIN products.



<Polyoxyethylene Fatty Acid Esters>

These products are nonionic surfactants which are formed by adding polymerizations of ethylene oxide to fatty acids.  
These surfactants are widely used as emulsifying agents/dispersing agents.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	HLB	Uses & Features
			Export to China	Registered on IECIC2015				
IONET MS-400	C <sub>17</sub> H <sub>35</sub> COO (CH <sub>2</sub> CH <sub>2</sub> O) nH	PEG-9 STEARATE PEG-9 硬脂酸酯	✓	✓		Pale Yellow Solid	11.9	• Hydrophilic emulsifying agents.
IONET MS-1000		PEG-23 STEARATE PEG-23 硬脂酸酯	✓	✓		Pale Yellow Solid	15.7	• Hydrophilic emulsifying agents/solubilizing agents/stabilizing agents.
IONET DL-200	C <sub>11</sub> H <sub>23</sub> COO (CH <sub>2</sub> CH <sub>2</sub> O) nCOC <sub>11</sub> H <sub>23</sub>	PEG-4 DILAURATE PEG-4 二月桂酸酯	✓	✓		Yellow Liquid	6.6	• Lipophilic emulsifying agents.
IONET DS-300	C <sub>17</sub> H <sub>35</sub> COO (CH <sub>2</sub> CH <sub>2</sub> O) nCOC <sub>17</sub> H <sub>35</sub>	PEG-6 DISTEARATE PEG-6 二硬脂酸酯	✓	✓		Pale Yellow Solid	7.3	• Lipophilic emulsifying agents.
IONET DS-4000		PEG-75 DISTEARATE PEG-75 二硬脂酸酯	✓	✓		Pale Yellow to Brown Solid	17.0	• Hydrophilic emulsifying agents/solubilizing agents/thickeners.
IONET DO-400	C <sub>17</sub> H <sub>33</sub> COO (CH <sub>2</sub> CH <sub>2</sub> O) nCOC <sub>17</sub> H <sub>33</sub>	PEG-8 DIOLEATE PEG-8 二油酸酯	✓	✓		Pale Straw Colored Liquid	8.4	• Lipophilic emulsifying agents.
IONET DO-600		PEG-12 DIOLEATE PEG-12 二油酸酯	✓	✓		Brown Liquid	10.4	• Hydrophilic emulsifying agents/solubilizing agents/thickeners.
EMULMIN 862	C <sub>17</sub> H <sub>35</sub> COO (CH <sub>2</sub> CH <sub>2</sub> O) nCOC <sub>17</sub> H <sub>35</sub>	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	✓	✓		Pale Yellow Powder	18.0	• Thickeners/emulsion stabilizer/gelling agents. • Has excellent thickening effects for sulfate-free detergents.

<Polyoxyethylene Polyoxypropylene Alkyl Ethers>

This product is nonionic surfactant having excellent α-gel forming abilities, which is formed by adding polymerizations of ethylene oxide/propylene oxide to cetanol.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	HLB	Uses & Features
		Export to China	Registered on IECIC2015				
ALPHAPUR HSG*1	PPG-2-CETETH-12*2 -	-	-		*1	*1	• Nonionic surfactants having especially excellent α-gel forming ability. • Has a wide range of cosmetic formulations and forms stable α-gels.

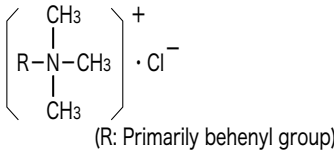
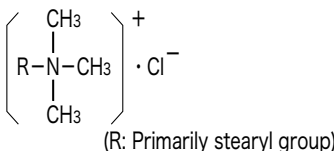
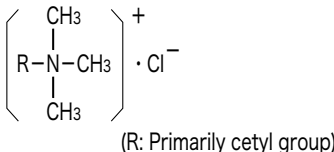
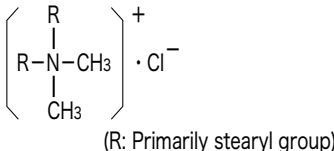
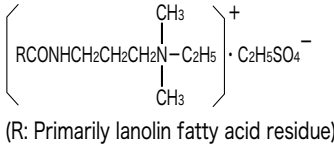
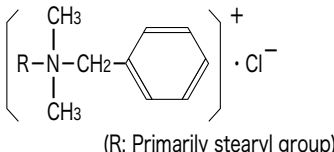
\*1 Product under development: As for the use of this products, please contact our Sales & Marketing Dept.

\*2 Currently applying for INCI Name in Japan

3-1. Cationic Surfactants

<Alkylammonium Chloride>

These surfactants are used as base materials for hair rinse/hair treatment/hair conditioner to exert softening properties and antistatic properties.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015				
ECONOL TM-22	 (R: Primarily behenyl group)	BEHENTRIMONIUM CHLORIDE, CETEARYL ALCOHOL 山嵛基三甲基氯化铵, 鲸蜡硬脂醇	✓	✓		White to Pale Yellow Block	4.5 (1wt%, Diluted with Water)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair. • Has excellent antistatic effects.
ECONOL TMS-28	 (R: Primarily stearyl group)	STEARTRIMONIUM CHLORIDE, WATER*1 硬脂基三甲基氯化铵, 水*1	✓	✓		Colorless to Pale Yellow Liquid	7.5 (Undiluted)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair.
LEBON TM-18		STEARTRIMONIUM CHLORIDE, PROPYLENE GLYCOL 硬脂基三甲基氯化铵, 丙二醇	✓	✓		White to Pale Yellow Solid	5.0 (1wt%, Diluted with Water)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair.
LEBON TM-18PA		STEARTRIMONIUM CHLORIDE, ISOPROPYL ALCOHOL, WATER*1 硬脂基三甲基氯化铵, 异丙醇, 水*1	✓	✓		White to Pale Yellow Paste	5.5 (1wt%, Diluted with Water)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair.
LEBON TM-16	 (R: Primarily cetyl group)	CETRIMONIUM CHLORIDE, WATER*1 西曲氯铵, 水*1	✓	✓		Pale Yellow Liquid	5.0 (1wt%, Diluted with Water)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair.
CATION DSV	 (R: Primarily stearyl group)	DISTEARYLDIMONIUM CHLORIDE, ISOPROPYL ALCOHOL 二硬脂基二甲基氯化铵, 异丙醇	✓	✓		Pale Yellow to Pale Brown Flake	5.5 (2wt%, Diluted with Water)	• Has excellent hair protecting effects and exerts excellent antistatic effects.
CATION LQ	 (R: Primarily lanolin fatty acid residue)	QUATERNIUM-33, BUTYLENE GLYCOL, WATER*1 季铵盐-33, 丁二醇, 水*1	✓	✓		Yellow to Brown Paste	4.5 (5wt%, Diluted with Water)	• Cationic surfactants comosed of lanolin fatty acid and quaternary ammonium compound. • Suitable for the hair treatment base. • Not listed in the Chemical Substances Control Law (Japan): This product can be used for the cosmetic use on the Pharmaceutical Affairs Law (Japan) only.
CATION S	 (R: Primarily stearyl group)	STEARALKONIUM CHLORIDE, ISOPROPYL ALCOHOL 司拉氯铵, 异丙醇	✓	✓		White Block	6.5 (1wt%, Diluted with Water)	• Adsorbs effectively on hair and gives a smooth feeling/stiffness and moisture to the hair.

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

3-2. Cationic Resins

<Polyurethan-Based>

This product is added to shampoos/hair conditioners to provide feeling improving properties and antistatic properties.  
Also it is used as styling agents.

Product Name	Composition and Structure	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registrated on IECIC2015				
HAIRROL UC-4	Poly quarternary ammonium salt of isophoron diisocyanate, butylene glycol & dihydroxy ethyl dimonium methyl sulfate	POLYQUATERNIUM-56, WATER*1 聚季铵盐-56, 水*1	✓*2	✓		White Liquid	7.0 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Polyurethane resin emulsion.</li><li>• Prevents from collapse of hairstyle by forming film having an elongation property on the hair surface and keeps hairstyle for a long time.</li><li>• Has antipollution effects.</li></ul>

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.  
\*2 As for the use of these products, please contact our Sales & Marketing Dept.

<Acrylic>

This product is added to shampoos/hair conditioners to provide reduction of squeaky feelings in rinsing and feeling improving effects.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
		Export to China	Registrated on IECIC2015				
COASILKY SSP-10*1	POLYQUATERNIUM-115, WATER*2 -	✓*1	-		White Liquid	3.5 (10wt%, Diluted with Water)	<ul style="list-style-type: none"><li>• Acrylic resin solution.</li><li>• Enables to provide reduction of squeaky feelings in rinsing and improvement of conditioning effects by introducing a hydrophobic group into cationic polymers.</li><li>• Has antipollution effects.</li></ul>

\*1 Product under development: As for the use of this product, please contact our Sales & Marketing Dept.  
\*2 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

4-1. Water-Soluble Thickeners and Gelling Agents

<Cross-Linked Acrylic Acidpolymers>

These products are cross-linked acrylic acid polymers derived from natural starches.  
They suppress stickiness and fit comfortably to skins.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Center Particle Size (μm)	Uses & Features
		Export to China	Registrated on IECIC2015				
SANFRESH ST-100MC	SODIUM POLYACRYLATE STARCH, WATER 聚丙烯酸钠接枝淀粉, 水	✓	✓		White Powder	30	<ul style="list-style-type: none"><li>• Water soluble thickeners: cross-linked acrylic acid polymers derived from starches originated from corns.</li><li>• Swells in water easily.</li><li>• Fits comfortably to skins and provides dry feeling.</li></ul>
SANFRESH ST-100SP	SODIUM POLYACRYLATE STARCH, WATER 聚丙烯酸钠接枝淀粉, 水	✓	✓		White Powder	13	<ul style="list-style-type: none"><li>• Water soluble thickeners: cross-linked acrylic acid polymers derived from starches originated from corns.</li><li>• Swells in water easily.</li><li>• Fits comfortably to skins and provides dry feeling.</li></ul>
SALANJUL 300*1	SODIUM POLYACRYLATE STARCH 聚丙烯酸钠接枝淀粉*1	✓	-		White Powder	30	<ul style="list-style-type: none"><li>• Water soluble thickeners: cross-linked acrylic acid polymers derived from starches originated from corns.</li><li>• Provides more dry feeling due to the higher starche content.</li><li>• Reduces stickiness of oil components in oil and emulsion.</li></ul>
SALANJUL 1000*1	SODIUM POLYACRYLATE STARCH 聚丙烯酸钠接枝淀粉*1	✓	-		White Powder	400	<ul style="list-style-type: none"><li>• Water soluble thickeners: cross-linked acrylic acid polymers derived from starches originated from corns.</li><li>• Provides crush jelly-like feeling for the cosmetic use due to the larger particles.</li><li>• Reduces stickiness of oil components in oil and emulsion.</li><li>• Soft scrubs.</li></ul>

\*1 Product under development: As for the use of these products, please contact our Sales & Marketing Dept.

4-2. Film-Forming Agents

<Polyurethan-Based>

These products are film-forming agents to provide gloss and high color developability due to softness and smoothness, characteristics of polyurethan.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Evaporation Residue (wt%)	Uses & Features
		Export to China	Registrated on IECIC2015					
COFLEXYL MM-10*1	POLYURETHANE-10, WATER*2 聚氨酯-10*1, 水*2	*1	✓		White Liquid	*1	*1	<ul style="list-style-type: none"><li>• Forms film having a smoothness and uniform compatibility.</li><li>• Provide high gloss and color developability and forms a cosmetic film lasting qualities free from kink with time.</li><li>• Suitable for eye make-up and sun-care formulations.</li></ul>
HAIRROL UC-4	POLYQUATERNIUM-56, WATER*2 聚季铵盐-56, 水*2	✓*3	✓		White Liquid	7.0 (10wt%, Diluted with Water)	24	<ul style="list-style-type: none"><li>• Cationic polyurethane emulsion.</li><li>• Forms film having an elongation property and prevents smeared make up.</li><li>• Has antipollution effects.</li></ul>

\*1 Product under development: As for the use of this product, please contact our Sales & Marketing Dept.

\*2 The product diluted with water of product may have carry-over components. For more details, please contact our Sales & Marketing Dept.

\*3 As for the use of this product, please contact our Sales & Marketing Dept.



5-1. Polyethyleneglycol

These products are base materials for the use of hair-care/skin-care. These are water-soluble bases which have low acute toxicity and low irritation to the skins and eyes.  
High-molecular weight polymers are used as foam stabilizing agents for shampoos and face washes and capable of refreshingly washing up. Low-molecular weight polymers ( $Mw \leq 2,000$ ) have biodegradability.

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Number-Average Molecular Weight*1	Uses & Features
			Export to China	Registered on IECIC2015				
PEG-200	HO (CH <sub>2</sub> CH <sub>2</sub> O) nH	PEG-4 聚乙二醇-4	✓	✓		Colorless Liquid	200	• Moisturizing agents/moistening agents/solvents.
PEG-300		PEG-6 聚乙二醇-6	✓	✓		Colorless Liquid	300	• Moisturizing agents/moistening agents/solvents.
PEG-400		PEG-8 聚乙二醇-8	✓	✓		Colorless Liquid	400	• Moisturizing agents/moistening agents/solvents. • Used as the poor solvents and effective as the base materials.
PEG-600		PEG-12 聚乙二醇-12	✓	✓		Colorless Liquid	600	• Moisturizing agents/moistening agents/solvents.
PEG-1000		PEG-20 聚乙二醇-20	✓	✓		White Wax	1,000	• Moisturizing agents/moistening agents/solvents.
PEG-1500		PEG-6, PEG-32 聚乙二醇-6, 聚乙二醇-32	✓	✓		White Paste	550	• Moisturizing agents/moistening agents/solvents. • Mixture of PEG-300 & PEG-1540
PEG-1540		PEG-32 聚乙二醇-32	✓	✓		White Wax	1,450	• Moisturizing agents/moistening agents/solvents.
PEG-2000		PEG-40 聚乙二醇-40	✓	✓		White Wax	2,000	• Moisturizing agents/moistening agents/solvents.
PEG-4000N		PEG-75 聚乙二醇-75	✓	✓		White Flake	3,100	• Moisturizing agents/moistening agents/solvents. • Has binder effects and effective as the binding agent for powder cosmetic.
PEG-4000S		PEG-75 聚乙二醇-75	✓	✓		White Flake	3,400	• Moisturizing agents/moistening agents/solvents. • Has binder effects and effective as the binding agent for powder cosmetic.
PEG-6000P		PEG-150 聚乙二醇-150	✓	✓		White Powder	8,600	• Moisturizing agents/moistening agents/solvents. • Has binder effects and effective as the binding agent for powder cosmetic.
PEG-6000S		PEG-150 聚乙二醇-150	✓	✓		White Flake	8,300	• Moisturizing agents/moistening agents/solvents. • Has binder effects and effective as the binding agent for powder cosmetic.
PEG-10000		PEG-240 聚乙二醇-240	✓	✓		White Flake	11,000	• Moisturizing agents/moistening agents/solvents/foaming assistants/stabilizing agents.
PEG-20000		PEG-400 聚乙二醇-400	✓	✓		White Flake	20,000	• Moisturizing agents/moistening agents/solvents.
PEG-20000P		PEG-400 聚乙二醇-400	✓	✓		White Powder	20,000	• Moisturizing agents/moistening agents/solvents.

\*1 Calculated from hydroxyl value

5-2. Polypropyleneglycol

These products are lipophilic components of hair-care/skin-care formulations mainly used for hair set agents.  
They are capable of ajustment as the oiling agents because their solubilities in water vary depending on the molecular weight.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Number-Average Molecular Weight*1	Uses & Features
		Export to China	Registrated on IECIC2015				
NEWPOL PP-400	PPG-7 聚丙烯醇-7	✓	✓		Colorless Liquid	400	• Water-soluble. • Solvents. • Enables to use for skin-care and hair-care conditioning agents.
NEWPOL PP-950	PPG-16 聚丙烯醇-16	✓	✓		Colorless Liquid	950	• Enables to use for skin-care and hair-care conditioning agents.
NEWPOL PP-1000	PPG-17 聚丙烯醇-17	✓	✓		Colorless Liquid	1,000	• Enables to use for skin-care and hair-care conditioning agents.
NEWPOL PP-1200	PPG-20 聚丙烯醇-20	✓	✓		Colorless Liquid	1,150	• Enables to use for skin-care and hair-care conditioning agents.
NEWPOL PP-2000	PPG-34 聚丙烯醇-34	✓	✓		Colorless Liquid	2,000	• Enables to use for skin-care and hair-care conditioning agents.

\*1 Calculated from hydroxyl value

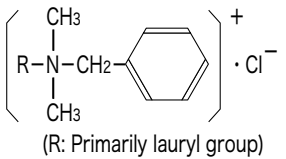
5-3. Polyoxyethylene Polyoxypropylene Derivatives

These products are used as the hair conditioning agents which are formed by adding porimerizations of ethylene oxide/  
isopropylene oxide to butanol.  
They enable to provide formulations with high stability as the lipophilic/hydrophilic components used for hair-care products.

Product Name	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	Number-Average Molecular Weight*1	Uses & Features
		Export to China	Registrated on IECIC2015				
NEWPOL 50HB-55	PPG-2-BUTETH-2 PPG-2-丁醇聚醚-2	✓	✓		Colorless Liquid	300	• Enables to use for hair-care conditioning agents.
NEWPOL 50HB-100	PPG-5-BUTETH-5 PPG-5-丁醇聚醚-5	✓	✓		Colorless Liquid	510	• Enables to use for hair-care conditioning agents.
NEWPOL 50HB-260	PPG-7-BUTETH-10 PPG-7-丁醇聚醚-10	✓	✓		Colorless Liquid	970	• Enables to use for hair-care conditioning agents.
NEWPOL 50HB-400	PPG-12-BUTETH-12 PPG-12-丁醇聚醚-12	✓	✓		Colorless Liquid	1,340	• Enables to use for skin-care conditioning agents.
NEWPOL 50HB-660	PPG-15-BUTETH-20 PPG-15-丁醇聚醚-20	✓	✓		Colorless Liquid	1,800	• Enables to use for skin-care conditioning agents.
NEWPOL 50HB-2000	PPG-28-BUTETH-35 PPG-28-丁醇聚醚-35	✓	✓		Colorless Liquid	3,200	• Enables to use for skin-care conditioning agents and thickeners.
NEWPOL 50HB-5100	PPG-33-BUTETH-45 PPG-33-丁醇聚醚-45	✓	✓		Colorless Liquid	3,750	• Enables to use for skin-care conditioning agents, thickeners and emulsion stabilizers.

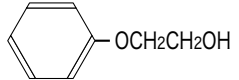
\*1 Calculated from hydroxyl value

6-1. Alkyl Ammonium Salt-Based

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015				
CATION G-50	 (R: Primarily lauryl group)	BENZALKONIUM CHLORIDE, WATER*1 苯扎氯铵, 水*1	✓	✓		Pale Yellow Liquid	9.0 (20wt%, Diluted with Water)	<ul style="list-style-type: none"><li>Has effective antibacterial activity even at low concentrations on a wide variety of bacteria.</li><li>The upper limit of dosage may be set by country-specific regulation.</li></ul>

\*1 The product diluted with water may have carry-over components. For more details, please contact our Sales & Marketing Dept.

6-2. Phenoxyethanol

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015				
NEWPOL EFP		PHENOXYETHANOL 苯氧乙醇	✓	✓		Colorless Liquid	6.0*1	<ul style="list-style-type: none"><li>Antiseptic generally used for cosmetic formulations.</li><li>The upper limit of dosage may be set by country-specific regulation.</li></ul>

\*1 10wt%(methanol : water=1 : 8) diluted solution

6-3. Alkanediol Derivatives

Product Name	Structural Formula of Main Component	INCI Name Chinese INCI Name	For China			Appearance (20±5°C)	pH (Sample Concentration)	Uses & Features
			Export to China	Registered on IECIC2015				
NEWPOL DDE-10	$\begin{array}{c} \text{C}_{10}\text{H}_{21}\text{CHCH}_2\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{H} \\   \\ \text{O}(\text{CH}_2\text{CH}_2\text{O})_m\text{H} \\ n+m \approx 1 \end{array}$	PEG-1 LAURYL GLYCOL -	-	-		White to Pale Yellow Paste	6.5 (2wt%, Diluted with Water)	<ul style="list-style-type: none"><li>Enables to use as the paraben alternatives when formulated into aqueous phase at 0.5%.</li><li>Exerts thickening property when used in combination with anionic surfactants for the use of hair-care products.</li></ul>

Here are formulas using our products that impart specific functions and stabilities by addition to formulas.

Classification	Product Name	Page of Grouping by Products	INCI Name Chinese INCI Name	Typical Features and Usability Obtained During Formula Preparation
Base Material	PEG-400	p21	PEG-8 聚乙二醇-8	Suitable for use as a soap solvent. Highly versatile base material for face washes.
Nonion	EMULMIN 862	p13	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	Thickens even in sulfate-free formulations, contributing to stabilization of the formulation.
Anion	BEAULIGHT LCA	p1	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	Provides rich foam when mixed with water. Excellent hard-water resistance.
	BEAULIGHT LCA-25N	p1	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	Provides rich foam when mixed with water. Excellent hard-water resistance. Recommended dosage: 3–35%
Anion /Foam Improver	BEAULIGHT SHAA	p1	SODIUM LAURYL GLYCOL CARBOXYLATE, WATER 月桂基甘醇羧酸钠, 水	Mixing in a small amount will increase foam fineness and height, and speed of foam formation. Forms highly stable foam even in weak acidity, recommending it for face washes. Recommended dosage: 3–6%
Amphoteric	LEBON CIB	p5	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	Alleviates irritation and leaves a good wash feeling. Very compatible with other surfactants. Thickens when combined with anionic surfactants.
Foam Improver	FROTHMEISTER HG-375	p7	PPG-75-PEG-300 HEXYLENE GLYCOL PPG-75-PEG-300 己二醇	Provides a fine, springy foam. Combining it with amino acids gives an even finer foam. Recommended dosage: 1–10%
Feeling Improver	SALANJUL 1000 <sup>*1</sup>	p19	SODIUM POLYACRYLATE STARCH 聚丙烯酸钠接枝淀粉	Foam has a bouncy, crushed feel, giving the skin a soft scrubbing effect. Suitable for leave-off products.
	COASILKY SSP-10 <sup>*1</sup>	p17	POLYQUATERNIUM-115, WATER -	Mixing a small amount into detergent will provide smoothness when combing through the hair after rinsing. Can also be used as an alternative to silicone. Recommended dosage: 1–6%

<sup>\*1</sup> Product under development: As for the use of this product, please contact our Sales & Marketing Dept..

Formula 1 Foaming Face Wash with a Very Fresh Feeling

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A & B: Heat and mix separately to 40–50°C uniformly. (2) Slowly add B to A while stirring. (3) After the two ingredients have been stirred uniformly, cool and defoam.
A	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	3.00	
	COCAMIDE DEA 椰油酰胺 DEA	PROFAN EXTRA24	1.00	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	4.00	
	PPG-75-PEG-300 HEXYLENE GLYCOL PPG-75-PEG-300 己二醇	FROTHMEISTER HG-375	8.00	
B	ARGININE 精氨酸		0.10	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
	WATER 水		83.40	

Formula 2 Milky and Mild Body Lotion

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A, B & C: Heat and mix separately to 70–75°C uniformly. (2) Add B and C into A in that order while stirring, and check that they have dissolved. (3) Add D to the A+B+C mixture and stir uniformly. (4) Cool and defoam.
A	WATER 水		33.68	
	DISODIUM EDTA EDTA 二钠		0.02	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.30	
	SODIUM CHLORIDE 氯化钠		1.00	
B	SODIUM LAURETH SULFATE, WATER 月桂醇聚醚硫酸酯钠, 水	BEAULIGHT NA-25S	30.00	
	COCAMIDOPROPYL BETAINE, WATER 椰油酰胺丙基甜菜碱, 水	LEBON HC-30W	7.00	
	COCAMIDE DEA 椰油酰胺 DEA	PROFAN EXTRA24	4.00	
C	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	EMULMIN 862	3.00	
	GLYCERIN 甘油		1.00	
D	CARBOMER 卡波姆		20.00 <sup>*1</sup>	

<sup>\*1</sup> 1 wt% aq. soln.

Formula 3 Emollient Oil Gel

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 40–50°C. (2) Stir uniformly, cool and defoam.
A	MACADAMIA INTEGRIFOLIA SEED OIL 全缘叶澳洲坚果籽油		56.00	
	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA	20.00	
	LAURETH-3 月桂醇聚醚-3		10.00	
	CAPRYLIC/CAPRIC TRIGLYCERIDE 辛酸/癸酸甘油三酯		5.00	
	COCAMIDE DEA 椰油酰胺 DEA	PROFAN EXTRA24	3.00	
	ISOPENTYLDIOL 异戊二醇		3.00	
	SORBITAN OLEATE 山梨坦油酸酯	IONET S-80	2.00	
	WATER 水		1.00	



Formula 4 Face Wash Foam with a Fresh Feeling

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A, B & C: Heat and mix separately to 85°C uniformly. (2) Mix B & C. (3) Quickly pour the B+C mixture into A and stir uniformly with a disperser. (4) Pour D into the A+B+C mixture, stir uniformly, and then cool and defoam.
A	LAURIC ACID 月桂酸		6.60	
	MYRISTIC ACID 肉豆蔻酸		12.00	
	PALMITIC ACID 棕榈酸		5.00	
	STEARIC ACID 硬脂酸		9.40	
	GLYCERYL STEARATE 甘油硬脂酸酯	TG-C	1.00	
	PEG-8 聚乙二醇-8	PEG-400	20.00	
	COCAMIDE DEA 椰油酰胺 DEA	PROFAN EXTRA24	1.00	
	GLYCERIN 甘油		10.00	
	TOCOPHEROL 生育酚		1.00	
B	WATER 水		16.45	
	POTASSIUM HYDROXIDE 氢氧化钾		6.20	
C	ISOPENTYLDIOL 异戊二醇		1.00	
	DISODIUM EDTA EDTA 二钠		0.05	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.30	
D	SODIUM POLYACRYLATE STARCH 聚丙烯酸钠接枝淀粉	SALANJUL 1000	10.00*1	

\*1 1 wt% aq. soln.

Formula 5 Silicone-Free Shampoo with Smooth Combing

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: After melting uniformly at room temperature, heat to 70–75°C. (2) Add B to A while stirring, and keep stirring until uniformly mixed. (3) Pour C into A+B mixture while stirring, and dissolve uniformly. (4) Pour D into the A+B+C mixture, stir uniformly, and cool to 40°C. (5) Pour E into the A+B+C+D mixture and adjust pH to 5.5–6.0. (6) Stir uniformly, cool and defoam.
A	WATER 水		54.50	
	SODIUM BENZOATE 苯甲酸钠		0.40	
B	POLYQUATERNIUM-115, WATER -	COASILKY SSP-10	3.00	
C	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	20.00	
	COCAMIDOPROPYL BETAINE, WATER 椰油酰胺丙基甜菜碱, 水	LEBON 2000HG	15.00	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	2.00	
	SORBITOL 山梨(糖)醇		3.00	
D	COCAMIDE METHYL MEA 椰油酰胺甲基 MEA		2.00	
E	CITRIC ACID 柠檬酸		0.10	

Formula 6 Sulfate-Free, Highly Foaming Shampoo

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Melt uniformly at room temperature. (2) B: After stirring and dispersing at room temperature, heat to 70–75°C. After melting uniformly, add to A at room temperature and mix uniformly. (3) Add C to A+B mixture at room temperature and dissolve uniformly. (4) Pour D into A+B+C mixture while stirring at room temperature, and dissolve uniformly. (5) Pour E into A+B+C+D mixture and stir uniformly. (6) Pour F into A+B+C+D+E mixture and adjust pH to 5.5–6.0. (7) Stir uniformly, cool and defoam.
A	WATER 水		18.45	
	SODIUM BENZOATE 苯甲酸钠		0.30	
B	POLYQUATERNIUM-10 聚季铵盐-10		0.50	
	WATER 水		25.00	
C	COCAMIDOPROPYL BETAINE, WATER 椰油酰胺丙基甜菜碱, 水	LEBON HC-30W	10.00	
	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	35.00	
	SODIUM LAURYL GLYCOL CARBOXYLATE, WATER 月桂基甘醇羧酸钠, 水	BEAULIGHT SHAA	5.00	
D	POLYQUATERNIUM-47 聚季铵盐-47		0.70	
	WATER 水		1.40	
E	COCAMIDE DEA 椰油酰胺 DEA	PROFAN EXTRA24	3.00	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
F	CITRIC ACID 柠檬酸		0.15	

Formula 7 Fresh Face Wash Makes Foam Having Resilient Characteristic

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C and mix uniformly. (2) B: Heat to 80–85°C and mix uniformly. (3) Pour B quickly into A at 80–85°C. (4) Pour C slowly into A+B. Mix well, defoam and cool.
A	MILYSTIC ACID 肉豆蔻酸		8.00	
	LAURIC ACID 月桂酸		1.00	
	PALMITIC ACID 棕榈酸		1.00	
	PEG-8 聚乙二醇-8	PEG-400	15.00	
	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	EMULMIN 862	2.00	
	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	20.00	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	3.00	
B	GLYCERIN 甘油		5.00	
	POTASSIUM HYDROXIDE 氢氧化钾		2.13	
	DISODIUM EDTA EDTA 二钠		0.02	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
C	WATER 水		32.35	
	CARBOMER 卡波姆		10.00*1	

\*1 1 wt% aq. soln.

Formula 8 Scalp Care Shampoo for the Prestige Brand

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C and mix uniformly. (2) B: Heat to 80–85°C and mix uniformly. (3) Pour B slowly into A at 80–85°C. (4) Pour C slowly into A+B. Mix well, defoam and cool.
A	WATER 水		34.25	
	TREHALOSE 海藻糖		1.00	
	CITRIC ACID 柠檬酸		0.10	
	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	EMULMIN 862	2.00	
	POLYQUATERNIUM-115, WATER -	COASILKY SSP-10	2.00	
B	SODIUM LAUROYL ASPARTATE, WATER 月桂酰天冬氨酸钠, 水		10.00	
	TEA-COCOYL GLUTAMATE 椰油酰基谷氨酸 TEA 盐		10.00	
	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	20.00	
	COCAMIDOPROPYL BETAINE, WATER 椰油酰胺丙基甜菜碱, 水	LEBON 2000	13.00	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	5.20	
	PEG-1 LAURYL GLYCOL -	NEWPOL DDE-10	1.00	
C	FRAGRANCE 香精		1.45	

Formula 9 Mild Body Shampoo for Baby

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C and mix uniformly. (2) B: Heat to 80–85°C and mix uniformly. (3) Pour B slowly into A at 80–85°C. (4) Pour C slowly into A+B. Mix well, defoam and cool.
A	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	20.00	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	6.50	
	COCAMIDOPROPYL BETAINE, WATER 椰油酰胺丙基甜菜碱, 水	LEBON 2000	5.00	
	PEG-20 SORBITAN COCOATE PEG-20 失水山梨醇椰油酸酯	IONET T-20C	3.00	
	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	EMULMIN 862	2.00	
	PEG-1 LAURYL GLYCOL -	NEWPOL DDE-10	1.00	
B	WATER 水		61.38	
	GLYCERIN 甘油		1.00	
	CITRIC ACID 柠檬酸		0.10	
	DISODIUM EDTA EDTA 二钠		0.02	

Formula 10 Cleansing Water Featuring BEAULIGHT LCA-25N & LEBON CIB

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Pour in all ingredients slowly while stirring water and mix well.
A	WATER 水		82.36	
	DISODIUM EDTA EDTA 二钠		0.03	
	CITRIC ACID 柠檬酸		0.01	
	SODIUM CITRATE 柠檬酸钠		0.10	
	PEG-6 CAPRYLIC/CAPRIC GLYCERIDES PEG-6 辛酸/癸酸甘油酯类		3.00	
	PEG-20 GLYCERYL DIISOSEARATE PEG-20 甘油二异硬脂酸酯		0.50	
	SODIUM LAURETH-4 CARBOXYLATE, WATER 月桂醇聚醚-4 羧酸钠, 水	BEAULIGHT LCA-25N	0.50	
	SODIUM COCOAMPHOACETATE, WATER 椰油酰两性基乙酸钠, 水	LEBON CIB	1.00	
	ISOPENTYLDIOL 异戊二醇		5.00	
	PPG-5-BUTETH-5 PPG-5-丁醇聚醚-5	NEWPOL 50HB-100	3.00	
	GLYCERIN 甘油		1.00	
	PPG-7 聚丙二醇-7	NEWPOL PP-400	0.50	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
	PENTYLENE GLYCOL 1, 2-戊二醇		2.50	

Here are formulas using our products that impart specific functions and stabilities by addition to formulas.

Classification	Product Name	Page of Grouping by Products	INCI Name Chinese INCI Name	Typical Features and Usability Obtained During Formula Preparation
Cation	COASILKY SSP-10 <sup>*1</sup>	p17	POLYQUATERNIUM-115, WATER -	For a silicone-free conditioner. Gives the hair a soft, silky feel.
	HAIRROL UC-4	p17	POLYQUATERNIUM-56, WATER 聚季铵盐-56, 水	Gives the hair body and spring and prevents static electricity.
Moisturizer	PEG-20000	p21	PEG-400 聚乙二醇-400	Effective for hair care as a high-polymer moisturizer.
	NEWPOL PP-2000	p23	PPG-34 聚丙二醇-34	Gives an emollient effect.
	NEWPOL 50HB-260	p23	PPG-7-BUTETH-10 PPG-7-丁醇聚醚-10	Suitable as a hair moisturizer.
Nonion	TG-C	p11	GLYCERYL STEARATE 甘油硬脂酸酯	Can be used for a wide range of emulsification aids.

<sup>\*1</sup> Product under development: As for the use of this product, please contact our Sales & Marketing Dept..

Formula 1 Conditioner with Anti-Pollution Effect

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A & B: Heat separately to 80–85°C. (2) Slowly pour A into B while stirring and mix uniformly. (3) Pour C and D in that order into A+B mixture while stirring. (4) Cool and defoam.
A	WATER 水		88.50	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.30	
B	BEHENTRIMONIUM CHLORIDE, CETEARYL ALCOHOL 山嵎基三甲基氯化铵, 鲸蜡硬脂醇	ECONOL TM-22	4.00	
	BUTYROSPERMUM PARKII (SHEA) BUTTER -		3.00	
	GLYCERYL STEARATE 甘油硬脂酸酯	TG-C	0.70	
	MACADAMIA INTEGRIFOLIA SEED OIL 全缘叶澳洲坚果籽油		1.00	
C	POLYQUATERNIUM-115, WATER -	COASILKY SSP-10	2.00	
D	POLYQUATERNIUM-56, WATER 聚季铵盐-56, 水	HAIRROL UC-4	0.50	

Formula 2 Glossy Hair Gel

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A & B: Heat separately to 80–85°C. (2) Slowly pour A into B while stirring to emulsify. (3) Pour C into A+B mixture while stirring. (4) Cool and defoam.
A	WATER 水		48.67	
	PPG-7-BUTETH-10 PPG-7-丁醇聚醚-10	NEWPOL 50HB-260	0.40	
	CARBOMER 卡波姆		30.00 <sup>*1</sup>	
	DISODIUM EDTA EDTA 二钠		0.03	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
B	MINERAL OIL 矿油		7.00	
	DIPENTAERYTHRITYL HEXAHYDROXYSTEARATE/ HEXASTEARATE/HEXAROSINATE 二聚季戊四醇六羟基硬脂酸酯/六硬脂酸酯/ 六松脂酸酯		3.00	
	SQUALANE 角鲨烷		1.50	
	EUROPHORBIA CERIFERA (CANDELILLA) WAX 小烛树(EUPHORBIA CERIFERA)蜡		2.00	
	BEESWAX 蜂蜡		1.50	
	PPG-34 聚丙二醇-34	NEWPOL PP-2000	0.40	
	PEG-60 HYDROGENATED CASTOR OIL PEG-60 氢化蓖麻油		1.00	
	LAURETH-7 月桂醇聚醚-7	EMULMIN NL-70	1.00	
C	CETETH-20 鲸蜡醇聚醚-20	EMULMIN CC-200	0.50	
	PEG-400 聚乙二醇-400	PEG-20000	0.30	
	POTASSIUM HYDROXIDE 氢氧化钾		2.20 <sup>*2</sup>	

<sup>\*1</sup> 1 wt% aq. soln.

<sup>\*2</sup> 10 wt% aq. soln.

Grouping by Use 3 Skin-Care

Here are formulas using our products that impart specific functions and stabilities by addition to formulas.

Classification	Product Name	Page of Grouping by Products	INCI Name Chinese INCI Name	Typical Features and Usability Obtained During Formula Preparation
Nonion	ALPHAPUR HSG*1	p13	PPG-2-CETETH-12*2 -	Creates a product with α-gel or liquid crystal structure.
	IONET S-80	p11	SORBITAN OLEATE 山梨坦油酸酯	Highly safe lipophilic emulsifying agent. Combining it with polyoxyethylene fatty acid ester and polyoxyethylene alkyl ether surfactants will enhance emulsification stability and cleansing ability, making it suitable for cleansing and emulsifying products.
	EMULMIN 862	p13	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	Allows preparation of stable emulsifiers even without carbomers. Provides a mild, gentle usability.
Agent for Improving Feel	SANFRESH ST-100SP	p19	SODIUM POLYACRYLATE STARCH, WATER 聚丙烯酸钠接枝淀粉, 水	Water-soluble starch thickener that gives a dry feeling. Reduces stickiness of oil components and polysaccharide thickeners. Suitable for hand creams and body creams, etc.

\*1 Product under development: As for the use of this product, please contact our Sales & Marketing Dept..

\*2 Currently applying for INCI Name

Formula 3 Anti-Aging Silicone-Free Conditioner

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 70–75°C. (2) Slowly add B to A while stirring, uniformly. (3) Slowly add C to the A+B mixture and stir uniformly. (4) Cool and defoam.
A	BEHENTRIMONIUM CHLORIDE, CETEARYL ALCOHOL 山嵛基三甲基氯化铵, 鲸蜡硬脂醇	ECONOL TM-22	4.40	
	STEARYL ALCOHOL 硬脂醇		2.30	
	CETYL ALCOHOL 鲸蜡醇		0.50	
	MINERAL OIL 矿油		1.00	
B	WATER 水		85.30	
	DIPROPYLENE GLYCOL 双丙甘醇		1.00	
	SORBITOL 山梨(糖)醇		3.00	
C	POLYQUATERNIUM-56, WATER 聚季铵盐-56, 水	HAIRROL UC-4	2.50	

Formula 4 Silicone-Free Conditioner for Smooth Combing

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 70–75°C. (2) Slowly add B to A while stirring, uniformly. (3) Slowly add C to the A+B mixture uniformly. (4) Cool and defoam.
A	BEHENTRIMONIUM CHLORIDE, CETEARYL ALCOHOL 山嵛基三甲基氯化铵, 鲸蜡硬脂醇	ECONOL TM-22	4.40	
	STEARYL ALCOHOL 硬脂醇		2.30	
	CETYL ALCOHOL 鲸蜡醇		0.50	
	MINERAL OIL 矿油		1.00	
B	WATER 水		81.80	
	DIPROPYLENE GLYCOL 双丙甘醇		1.00	
	SORBITOL 山梨(糖)醇		3.00	
C	POLYQUATERNIUM-115, WATER -	COASILKY SSP-10	6.00	

Formula 1 Hand Cream with a Moisturizing Feel

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C. (2) Pour B into C and allow mixture to expand. (3) Heat B+C mixture to 80–85°C. (4) Slowly add B+C mixture to A and perform phase-transfer emulsification. (5) Stir uniformly, cool and defoam.
A	STEARIC ACID 硬脂酸		1.40	
	ETHYLHEXYL PALMITATE 棕榈酸乙基己酯		5.00	
	BUTYROSPERMUM PARKII (SHEA) BUTTER -		3.00	
	TRIETHYLHEXANOIN 甘油三(乙基己酸)酯		12.00	
	HYDROGENATED RAPESEED ALCHOL 氢化油菜籽油醇		2.00	
	GLYCERIN 甘油		2.00	
	TOCOPHEROL 生育酚		0.05	
	PEG-190 DISTEARATE PEG-190 二硬脂酸酯	EMULMIN 862	0.30	
B	XANTHAN GUM 黄原胶		0.05	
	BUTYLENE GLYCOL 丁二醇		1.00	
C	WATER 水		65.00	
	ARGININE 精氨酸		0.80	
	ISOPENTYLDIOL 异戊二醇		7.00	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.40	



Formula 2 Skincare Cream with α-gel Structure

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A & B: Heat separately to 80–85°C. (2) Slowly add B to A while stirring with a disperser. (3) After the two ingredients have been stirred uniformly, cool and defoam.
A	WATER 水		59.33	
	CITRIC ACID 柠檬酸		0.01	
	SODIUM CITRATE 柠檬酸钠		0.10	
	GLYCERIN 甘油		8.00	
	METHYLPARABEN 羟苯甲酯		0.15	
B	PPG-2-CETETH-12 -	ALPHAPUR HSG	2.50	
	BEHENYL ALCOHOL 山嵛醇		2.00	
	STEARYL ALCOHOL 硬脂醇		3.00	
	STEARIC ACID 硬脂酸		0.50	
	CAPRYLIC/CAPRIC TRIGLYCERIDE 辛酸/癸酸甘油三酯		13.40	
	DIPENTAERYTHRITYL HEXAHYDROXYSTEARATE/ HEXASTEARATE/HEXAROINATE 二聚季戊四醇六羟基硬脂酸酯/六硬脂酸酯/ 六松脂酸酯		3.60	
	SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL 霍霍巴		2.50	
	DIMETHICONE 聚二甲基硅氧烷		0.50	
	BUTYLENE GLYCOL 丁二醇		4.00	
	TOCOPHEROL 生育酚		0.01	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.40	

Formula 3 Light Feeling Face Lotion for the Hands or Skin

	INCI Name Chinese INCI Name	Product Name	wt%	(1) C: Blend with some isopentyldiol. (2) A: Heat and melt at around 40°C. (3) B: Mix and disperse. (4) Pour B into A and disperse uniformly. (5) Pour C into A+B mixture while stirring. (6) Stir uniformly and defoam.
A	WATER 水		84.47	
	ISOPENTYLDIOL 异戊二醇		4.80	
	GLYCERIN 甘油		3.19	
	PEG-60 HYDROGENATED CASTOR OIL PEG-60 氢化蓖麻油		0.33	
B	ALCOHOL 乙醇		5.00	
	XANTHAN GUM 黄原胶		0.05	
	SODIUM HYALURONATE 透明质酸钠		0.01	
	(Plant extract)		2.00	
C	SODIUM POLYACRYLATE STARCH, WATER 聚丙烯酸钠接枝淀粉, 水	SANFRESH ST-100SP	0.15	

Formula 4 Marshmallow-Like Sunscreen Cream with α-gel

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C. After mixing well, cool to produce an α-gel. (2) B: Heat to 80–85°C and mix well. (3) Pour B slowly into A at room temperature and mix well, defoam and cool.
A	WATER 水		12.69	
	PPG-2-CETETH-12 -	ALPHAPUR HSG	1.00	
	BEHENYL ALCOHOL 山嵛醇		5.00	
	ETHYLHEXYL METHOXYXINNAMATE 甲氧基肉桂酸乙基己酯		8.00	
	CAPRYLIC/CAPRIC TRIGYCEIDE 辛酸/癸酸甘油三酯		7.00	
	DIMETHICONE 聚二甲基硅氧烷		0.35	
	TOCOPHEROL 生育酚		0.01	
B	WATER 水		60.00	
	GLYCERIN 甘油		2.00	
	SODIUM POLYACRYLATE STARCH, WATER 聚丙烯酸钠接枝淀粉, 水	SANFRESH ST-100SP	0.35	
	BUTYLENE GLYCOL 丁二醇		3.00	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.60	

Formula 5 Warm Cleansing

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Heat to 80–85°C and mix well. (2) B: Mix well. (3) Add C to B, heat to 80–85°C and mix well. (4) Add D to A+B+C and mix well, defoam and cool.
A	GLYCERIN 甘油		81.07	
	PEG-8 聚乙二醇-8	PEG-400	10.00	
B	PEG-12 DIOLATE PEG-12 二油酸酯	IONET DO-600	4.00	
	SORBITAN OLEATE 山梨坦油酸酯	IONET S-80	4.00	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.40	
C	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER 丙烯酸(酯)类/C10-30 烷醇丙烯酸酯交联 聚合物		0.20	
D	WATER 水		0.30	
	SODIUM HYDROXIDE 氢氧化钠		0.03	

Here are formulas using our products that impart specific functions and stabilities by addition to formulas.

Classification	Product Name	Page of Grouping by Products	INCI Name Chinese INCI Name	Typical Features and Usability Obtained During Formula Preparation
Film-Forming Agent	COFLEXYL MM-10 <sup>*1</sup>	p19	POLYURETHANE-10, WATER 聚氨酯-10, 水	Forms a supple, glossy film. Improves pigment dispersability. Suitable for eye make-up.

<sup>\*1</sup> Product under development: As for the use of this product, please contact our Sales & Marketing Dept..

Formula 1 Glossy Eyeliner

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Add in listed order while stirring. (2) Stir uniformly and defoam.
A	WATER 水		26.90	
	CARBON BLACK (Water-DISPERSED) 炭黑		30.00	
	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
	ISOPENTYLDIOL 异戊二醇		3.00	
	PENTYLENE GLYCOL 1, 2-戊二醇		2.10	
	POLYURETHANE-10, WATER 聚氨酯-10, 水	COFLEXYL MM-10	37.50	

Formula 2 Black Mascara without Clump to Separate Eyelashes

	INCI Name Chinese INCI Name	Product Name	wt%	(1) A: Knead together with a three roll mill until uniformly dispersed. (2) B: Add in listed order while stirring. Once uniformly mixed, heat to 85°C. (3) Pour A into B while stirring and mix well. (4) Pour C into A+B mixture while stirring, and after mixing well, heat to 85°C. (5) D: Heat to 85°C. (6) Pour D into A+B+C mixture and stir uniformly. Cool it to 40–50°C or less, then pour in E and F in that order. (7) After mix well, cool and defoam.
A	CETETH-20 鲸蜡醇聚醚-20	EMULMIN CC-200	1.00	
	PENTYLENE GLYCOL 1, 2-戊二醇		0.50	
	ISOPENTYLDIOL 异戊二醇		5.00	
	CARBON BLACK 炭黑		1.00	
B	WATER 水		41.16	
	PENTYLENE GLYCOL 1, 2-戊二醇		2.00	
	ISOPENTYLDIOL 异戊二醇		2.00	
	DISODIUM EDTA EDTA 二钠		0.04	
	HYDROXYETHYLCELLULOSE 羟乙基纤维素		1.60 <sup>*1</sup>	
	PVP 聚乙烯吡咯烷酮		1.50	
C	AMINOMETHYL PROPANOL 氨甲基丙醇		0.15	
D	EURHORBIA CERIFERA (CANDELILLA) WAX 小烛树(EUPHORBIA CERIFERA)蜡		8.00	
	BEESWAX 蜂蜡		4.00	
	SORBITAN STEARATE 山梨坦硬脂酸酯	IONET S-60V	0.35	
	POLYSORBATE 80 聚山梨醇酯-80	IONET T-80V	1.00	
	PEG-5 GLYCERYL ISOSTEARATE PEG-5 甘油异硬脂酸酯		1.70	
	DIPENTAERYTHRITYL HEXAHYDROXYSTEARATE/ HAXASTEARATE/HAXAROINATE 二聚季戊四醇六羟基硬脂酸酯/六硬脂酸酯/ 六松脂酸酯		1.00	
	DIMETHICONE 聚二甲基硅氧烷		0.50	
E	PHENOXYETHANOL 苯氧乙醇	NEWPOL EFP	0.50	
F	POLYURETHANE-10, WATER 聚氨酯-10, 水	COFLEXYL MM-10	27.00	

<sup>\*1</sup> 1 wt% aq. soln.

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Grouping by Use

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