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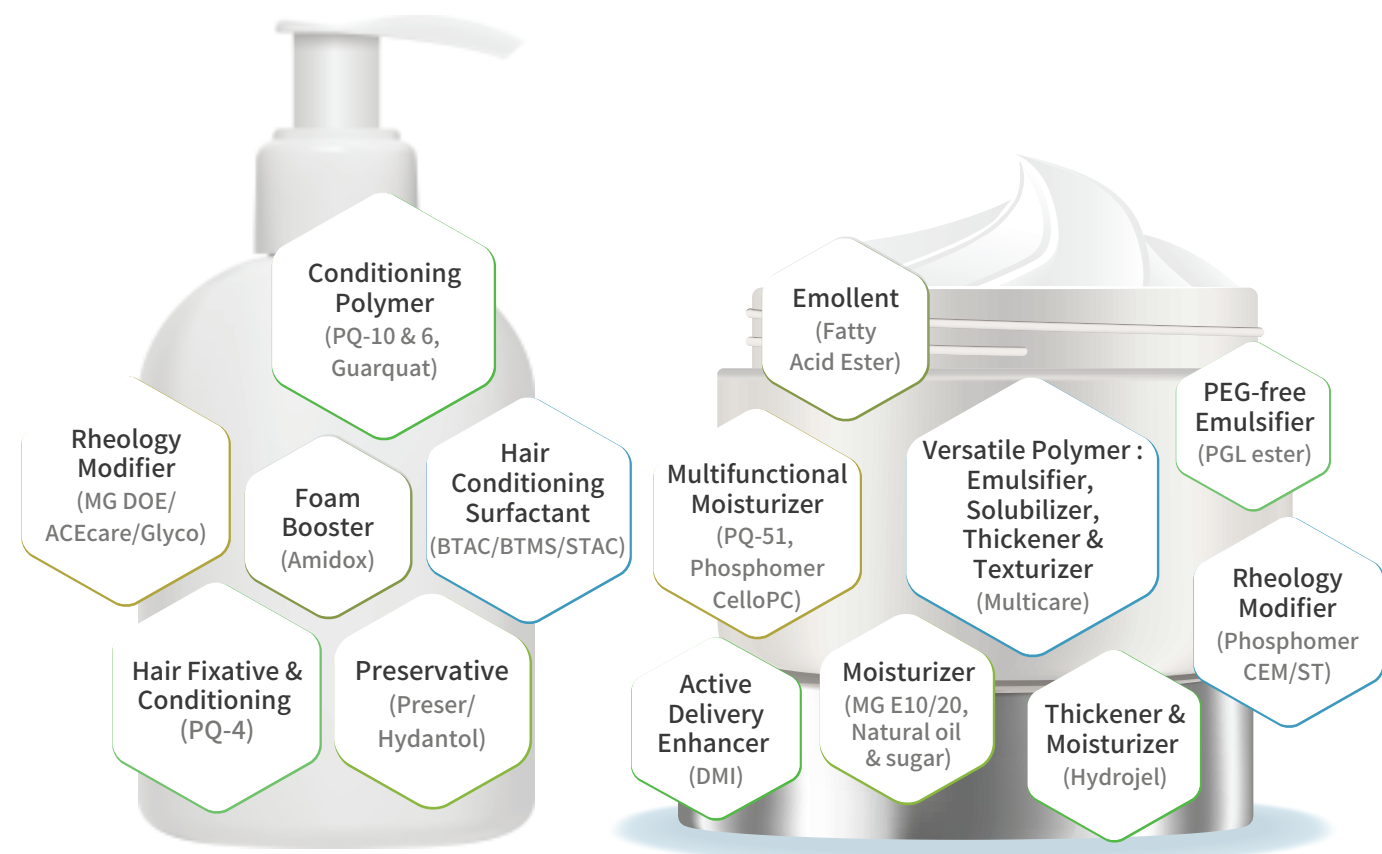
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July 2021



# Your Reliable Partner

Our Product Portfolio for Beauty & Personal Care



# Global Presence

A global logistic system that enables us to supply our materials to NA & European customers within a week.



# Certificates & Awards

**Regulation**

- EU REACH Regulation
- Halal Certification

**Corporate Social Responsibility**

- RSPO Roundtable on Sustainable Palm Oil
- CDP Carbon Disclosure Project
- Ecovadis CSR assessment
- ISO 14001 Environmental Management System
- ISO 45001 Occupational Health and Safety Management System
- COSMOS Approved

**Quality Certification**

- ISO 9001 Quality management
- ISO 22716 Cosmetic - Good Manufacturing Practices
- EFFCI The European Federation for Cosmetic Ingredient
- World Class Product of Korea

# KCI Tech Center

We provide our customers with innovative technology & expertise accumulated over 35 years.



Conditioning Polymer

| Product Name                           | Certification                                                                                                                                                           | INCI                                  | Features/Benefits                                                                                                                                                                                                  | Typical Properties |                                                                                     |                 | Application                                                                           |                                                                                       |                                                                                       |            |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|
|                                        |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    | Form               | Nitrogen (%)                                                                        | Viscosity (cPs) | Shampoo                                                                               | Hair Conditioner                                                                      | Hair Styling                                                                          | Shower gel |
| Polyquta 125KC                         |       | Polyquaternium-10                     | Hair conditioning agent<br>Improving wet & dry combing<br>Enabling clear formulation<br>Repairing & protecting damaged hair<br>Decreasing static effect<br>Moisturizing & lustering effect<br>Increasing viscosity | Powder             | 1.7 - 2.2                                                                           | 75 - 175        |    |    |    |            |
| Polyquta 400KC                         |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    |                                                                                     | 300 - 500       |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquta 1000KC                        |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 1.4 - 1.8                                                                           | 1,000 - 1,400   |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquta 3000KC                        |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 1.7 - 2.2                                                                           | 1,000 - 2,500   |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquta LR400KC                       |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 0.8 - 1.2                                                                           | 300 - 500       |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquta LR3000KC                      |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    |                                                                                     | 1,000 - 2,500   |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquta HR3000KC                      |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 2.6 - 2.9                                                                           | 1,000 - 2,500   |                                                                                       |                                                                                       |                                                                                       |            |
| Neoquta 400KC                          |                                                                                                                                                                         | Granule                               | Granule type PQ-10<br>Dust-free<br>Premixing-free & production flexibility<br>(usable regardless of temp. or process)                                                                                              | 1.7 - 2.2          | 300 - 500                                                                           |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Neoquta 3000KC                         |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 1,000 - 2,500                                                                       |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Polyquat L420KC                        |                                                                                      | Polyquaternium-4                      | Hair fixative & conditioning agent<br>Forming clear & glossy film on hair                                                                                                                                          | Powder             | 1.6 - 2.4                                                                           | 35 - 350        |  |  |  |            |
| Polyquat 640KC                         |   | Polyquaternium-6                      | High charge density conditioning agent<br>Antistatic, film forming<br>Skin conditioning & viscosity controlling                                                                                                    | Liquid             | -                                                                                   | 8,000 - 12,000  |  |  |  |            |
| Guarquat C130KC                        |   | Guar Hydroxypropyl trimonium Chloride | Conditioning & thickening agent<br>Improving wet/dry combing w/o build-up<br>Decreasing static effect<br>Moisturizing & lustering on hair/skin<br>Repairing & protecting damaged hair                              | Powder             | 1.3 - 1.6                                                                           | 3,000 - 4,000   |  |  |  |            |
| Guarquat C140KC                        |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 1.3 - 1.7                                                                           |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat H140KC                        | 1.25 - 1.55                                                                                                                                                             |                                       |                                                                                                                                                                                                                    |                    | 4,000 - 5,000                                                                       |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat L80KC                         | 1.1 - 1.6                                                                                                                                                               |                                       |                                                                                                                                                                                                                    |                    | 150 - 250                                                                           |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat BF130KC<br><b>Boron-free</b>  |   |                                       |                                                                                                                                                                                                                    |                    | 1.3 - 1.6                                                                           | 3,000 - 4,000   |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat DF140KC<br><b>Boron-free</b>  |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    | 1.3 - 1.7                                                                           |                 |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat NT500KC<br><b>Clear sytem</b> |   |                                       |                                                                                                                                                                                                                    |                    | 0.9 - 1.5                                                                           | 300 - 1,000     |                                                                                       |                                                                                       |                                                                                       |            |
| Guarquat CP500KC<br><b>Clear sytem</b> |                                                                                                                                                                         |                                       |                                                                                                                                                                                                                    |                    |  |                 |                                                                                       |                                                                                       |                                                                                       | 0.8 - 1.4  |



Hair Conditioning Agent

| Product Name                       | Certification                                                                                                                                                               | INCI                                           | Features/Benefits                                                                                                                                                                                                                                                                             | Typical Properties |                             | Application                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               | Form               | Active Substance (%)        | Shampoo                                                                                                                                                                                                                                                     | Hair Conditioner                                                                                                                                                                                                                                            | Hair Styling                                                                                                                                                                                                                                                |
| BTAC P7580KC                       |       | Behentrimonium Chloride                        | Hair conditioning agent<br>Enhancing gloss & shine<br>Improving wet combing<br>Good softening effect<br>Volume boosting<br>Antistatic effect<br><br>Conditioning: BTAC/BTMS>STAC>CTAC<br>Irritation: CTAC>STAC>BTAC/BTMS<br>Emulsifying effect: BTMS<br>Biodegradability: BTMS>BTAC/STAC/CTAC | Pellet             | 78 - 84                     |    |    |    |
| BTAC D7570KC                       |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 68 - 70                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTAC 220KC                         |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 25 - 27                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTAC 228KC                         |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 79 - 81                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTAC C4050KC<br><div>Low IPA</div> |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 35 - 45                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTMS P8580KC                       |                                                                                                                                                                             | 78 - 82                                        |                                                                                                                                                                                                                                                                                               |                    |                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTMS 7550KC                        |                                                                                                                                                                             | 48 - 51                                        |                                                                                                                                                                                                                                                                                               |                    |                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTMS C7550KC                       |                                                                                                                                                                             | 48 - 51                                        |                                                                                                                                                                                                                                                                                               |                    |                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTMS 225KC                         |                                                                                                                                                                             | 23 - 26                                        |                                                                                                                                                                                                                                                                                               |                    |                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| BTMS 225LKC                        |   | Behentrimonium Methosulfate & Cetearyl Alcohol |                                                                                                                                                                                                                                                                                               |                    | 23 - 26                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| STAC 80KC                          |   | Steatrimonium Chloride                         |                                                                                                                                                                                                                                                                                               | Paste              | 64 - 66                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| STAC 808KC                         |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               | Pellet             | 79 - 82                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| CTAC 25KC                          |                                                                                                                                                                             | Cetrimonium Chloride                           |                                                                                                                                                                                                                                                                                               | Liquid             | 24 - 26                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| CTAC 30KC                          |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 29 - 31                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| CTAC 60KC                          |                                                                                                                                                                             |                                                |                                                                                                                                                                                                                                                                                               |                    | 24 - 26                     |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |
| LTAC 20KC                          |                                                                                                                                                                             | Laurrimonium chloride                          | Conditioning agent for home care<br>Antistatic agent & softener for textile<br>Inhibiting microorganism growth                                                                                                                                                                                | 28 - 30            | Fabric detergent & softener |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                             |



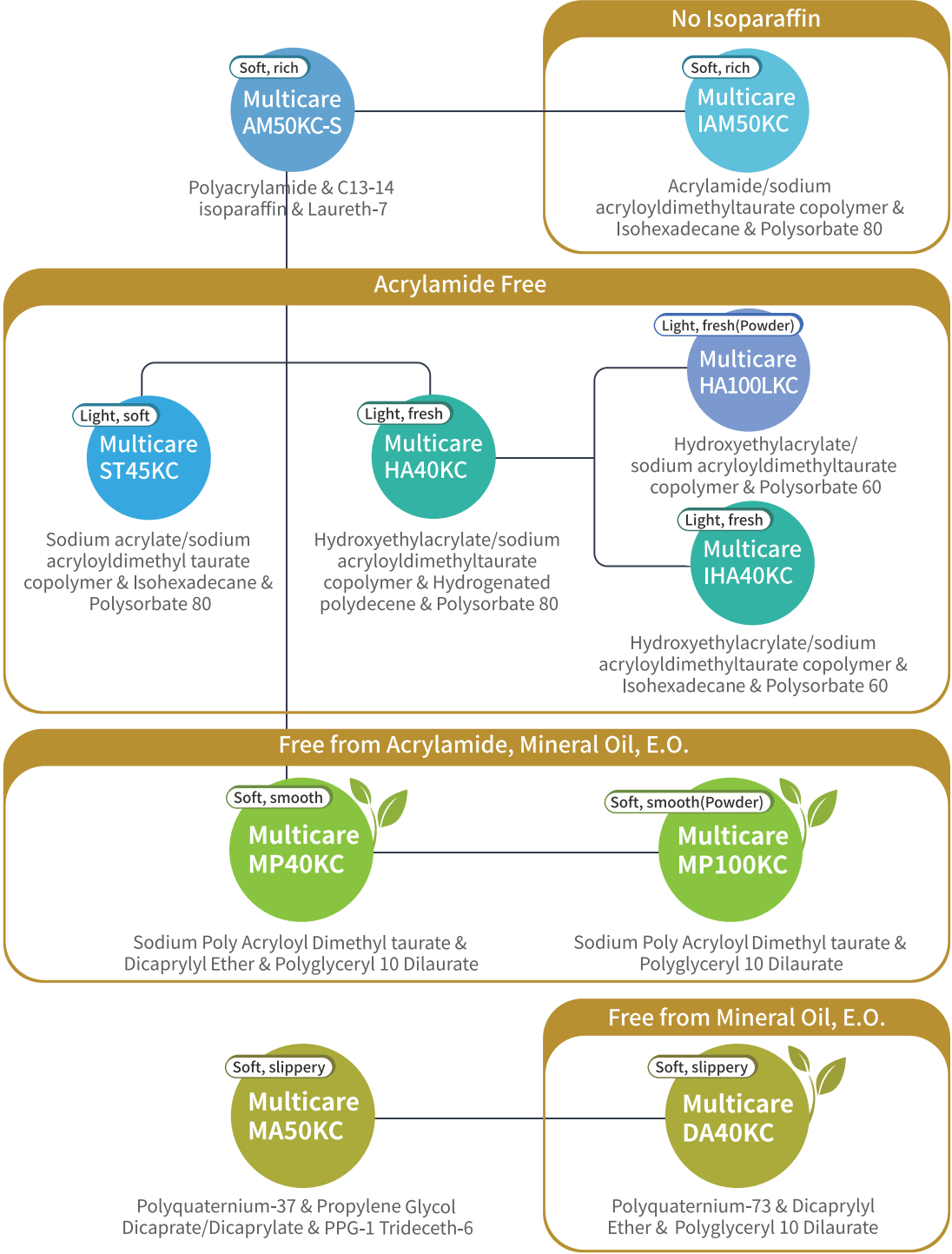
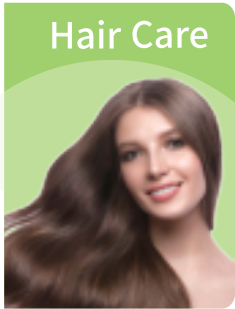
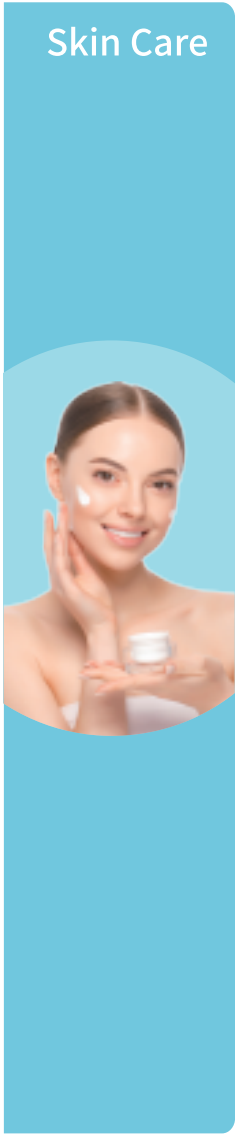
Multifunctional Polymer - Emulsifier, Thickener & Texturizer

| Product Name                                   | Certification                                                                       | INCI                                                                                                     | Features/Benefits                                                                                                                                                                                                                                     | Typical Properties |                      | Application |                  |              |            |                   |                 |           |         |
|------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|
|                                                |                                                                                     |                                                                                                          |                                                                                                                                                                                                                                                       | Form               | Active Substance (%) | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |
| Multicare AM50KCS<br>Soft, Rich                |  | Polyacrylamide & C13-14 isoparaffin & Laureth-7                                                          | Multifunctional rheology modifier<br>Emulsifier, stabilizer & texturizer<br>Ready to use, pre-neutralized polymer<br>Cold processable<br>Working at a wide range of pH<br>Gelating easily with moderate shear<br>Emulsifying almost all kinds of oils | Liquid             | 45 - 49              |             |                  |              |            |                   |                 |           |         |
| Multicare HA40KC<br>Light, Fresh               |                                                                                     | Hydroxyethylacrylate/sodium acryloyldimethyltaurate copolymer & Hydrogenated polydecene & Polysorbate 80 |                                                                                                                                                                                                                                                       |                    | 26 - 30              |             |                  |              |            |                   |                 |           |         |
| Multicare HA100LKC<br>Light, Fresh             |                                                                                     | Hydroxyethylacrylate/sodium acryloyldimethyltaurate copolymer                                            |                                                                                                                                                                                                                                                       | Powder             | 90 - 100             |             |                  |              |            |                   |                 |           |         |
| Multicare ST45KC<br>Light, Soft                |                                                                                     | Sodium acrylate/sodium acryloyldimethyl taurate copolymer & Isohexadecane & Polysorbate 80               |                                                                                                                                                                                                                                                       | Liquid             | 44 - 48              |             |                  |              |            |                   |                 |           |         |
| Multicare MP40KC<br>Soft, Smooth<br>EO-free    |                                                                                     | Sodium Poly Acryloyl Dimethyl taurate & Dicaprylyl Ether & Polyglyceryl 10 Dilaurate                     |                                                                                                                                                                                                                                                       |                    | 49 - 53              |             |                  |              |            |                   |                 |           |         |
| Multicare MP100KC<br>Soft, Smooth<br>EO-free   |                                                                                     | Sodium Poly Acryloyl Dimethyl taurate & Polyglyceryl 10 Dilaurate                                        |                                                                                                                                                                                                                                                       | Powder             | 90 - 100             |             |                  |              |            |                   |                 |           |         |
| Multicare IAM50KC<br>Soft, Rich                |                                                                                     | Acrylamide/sodium acryloyldimethyltaurate copolymer & Isohexadecane & Polysorbate 80                     |                                                                                                                                                                                                                                                       | Liquid             | 45~49                |             |                  |              |            |                   |                 |           |         |
| Multicare IHA40KC<br>Light, Fresh              |                                                                                     | Hydroxyethylacrylate/sodium acryloyldimethyltaurate copolymer & Isohexadecane & Polysorbate 60           |                                                                                                                                                                                                                                                       |                    | 35~50                |             |                  |              |            |                   |                 |           |         |
| Multicare DA40KC<br>Soft & Slippery<br>EO-free |                                                                                     | Polyquaternium-73 & Dicaprylyl Ether & Polyglyceryl 10 Dilaurate                                         | Cationic thickening & conditioning agent<br>Excellent performance for haircare<br>Exceptionally soft & mild                                                                                                                                           | Liquid             | 40 - 50              |             |                  |              |            |                   |                 |           |         |



Emulsifying - Thickening Polymer (Multicare Series)

- Ready to use, pre-neutralized emulsion polymer
- Working at a wide pH range
- Cold processable
- Gelating easily & quickly with moderate shear
- Emulsifying almost all kinds of oils
- Face & body care, Hair care, Sun care, Make-up



Rheology Modifier

| Product Name                     | Certification                                                                                                                                                       | INCI                                                                                 | Features/Benefits                                                                                                                        | Form   | Application |                  |              |            |                   |                 |           |         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|
|                                  |                                                                                                                                                                     |                                                                                      |                                                                                                                                          |        | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |
| Acecare 30KC/F30KC               |   | Acrylates Copolymer                                                                  | Rheology modifier for clear system<br>Suspending & stabilizing agent                                                                     | Liquid | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
| Glyco 171KC                      |                                                                                    | PEG-18 Glyceryl Oleate/Cocoate                                                       | Easy to use thickener, emulsifier & solubilizer<br>Emollient, conditioning agent & lubricant<br>Cold processable                         |        | ●           | ●                | ●            | ●          | ●                 | ●               |           |         |
| Methyl Gluceth DOE 120KC         |   | PEG-120 Methyl Glucose Dioleate                                                      | Highly efficient viscosity builder<br>Mild & non-irritating to eyes<br>Suitable for baby care<br>Improving sensory & moisturizing effect | Flake  | ●           | ●                | ●            | ●          | ●                 | ●               |           |         |
| Methyl Gluceth DOE 120KC RSPO MB |   |                                                                                      |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               |           |         |
| Methyl Gluceth DOE A120KC        |                                                                                  |                                                                                      |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               |           |         |
| Phosphomer® CEM510KC             |                                                                                                                                                                     | Acrylic acid /Phosphorylcholine glycol acrylate crosspolymer                         | Multifunctional biomimetic thickener<br>Skin barrier & moisturizer<br>Superior texturizer, reducing stickiness<br>Carbomer + MPC polymer | Powder | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
| Phosphomer® CEM510CNKC           |                                                                                  | Carbomer & PolyPhosphorylcholine glycol Acrylate                                     |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
| Phosphomer® ST610KC              |                                                                                                                                                                     | Polyacrylate crosspolymer-14                                                         |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
| Phosphomer® ST610CNKC            |                                                                                  | Acrylates/C10-30 Alkyl acrylate crosspolymer & Polyphosphorylcholine glycol acrylate |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
|                                  |                                                                                                                                                                     |                                                                                      |                                                                                                                                          |        | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |



PEG-free Emulsifier & Solubilizer

| Product Name        | Certification                                                                                                                                                           | INCI                          | Features/Benefits                                                                                                                                                           | HLB  | Form   | Application |                  |              |            |                   |                 |           |         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|
|                     |                                                                                                                                                                         |                               |                                                                                                                                                                             |      |        | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |
| PGLCP 102KC         |                                                                                      | Polyglyceryl-2 Caprate        | EO-free O/W emulsifier, thickener & moisturizer<br>Skin conditioning & sensory modifier<br>Antimicrobial activity against gram positive bacteria                            | 10.3 | Liquid |             |                  |              |            |                   |                 |           |         |
| PGLCP 102KC RSPO MB |   | Polyglyceryl-2 Caprate        |                                                                                                                                                                             |      |        |             |                  |              |            |                   |                 |           |         |
| PGLIS 302KC         |                                                                                      | Polyglyceryl-2 Triisostearate | EO-free W/O emulsifier<br>Excellent pigment dispersing agent<br>Soft rich skin feel, gloss & shine<br>High viscosity & good adhesivness<br>Cream, Make-up, Lipbam, Lipstick | 3.4  |        |             |                  |              |            |                   |                 |           |         |
| PGLIS 102KC         |                                                                                                                                                                         | Polyglyceryl-2 Isostearate    | EO-free W/O emulsifier, thickener & moisturizer<br>Cream, Lipstick, facial cleanser, Hair care                                                                              | 7.6  |        | ●           | ●                | ●            | ●          | ●                 | ●               | ●         | ●       |
| PGLOL 102KC         |                                                                                                                                                                         | Polyglyceryl-2 Oleate         | EO-free hydrophobic W/O emulsifier<br>Thickener & moisturizer<br>Facial cleanser, cream, lotions, serums                                                                    | 7.2  |        |             |                  |              |            |                   |                 |           |         |
| PGLLA 110KC         |                                                                                                                                                                         | Polyglyceryl-10 Laurate       | EO-free O/W emulsifier, solubilizer & moisturizer<br>Excellent dispersant, strong cleaning effect<br>Skin & eye friendly cleansing agent for facial & body washes           | 16.6 |        |             |                  |              |            |                   |                 |           |         |
| PGLIS 210KC         |                                                                                                                                                                         | Polyglyceryl-10 Diisostearate | EO-free hydrophilic O/W emulsifier, moisturizer<br>Texturizer(soft & pleasant feel)<br>Cleansing ability                                                                    | 11.4 |        |             |                  |              |            |                   |                 |           |         |
| PGLOL 110KC         |                                                                                                                                                                         | Polyglyceryl-10 Oleate        | EO-free O/W hydrophilic emulsifier, solubilizer<br>Thickener & moisturizer<br>Good pigment dispersant<br>Prevent sweating of lipstick & oily foundations                    | 14.5 |        |             |                  |              |            |                   |                 |           |         |

Natural Moisturizer & Skin Conditioning Agent

|                       |                                                                                                                                                                             |                             |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|--|--|--|--|--|--|--|
| PGL 202KC             |   | Diglycerin                  | Excellent moisturizer<br>Humectant & thickener<br>Superior dispersing ability<br>Less irritant, not hazardous<br>Lubrication without oily feel<br>Softness and smoothness<br>Excellent solvent(make-up remover) | Liquid |  |  |  |  |  |  |  |  |  |
| PGL 103KC             |                                                                                                                                                                             | Polyglycerin-3              |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
| PGL 104KC             |                                                                                                                                                                             | Polyglycerin-4              |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
| PGL 106KC             |                                                                                        | Polyglycerin-6              |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
| PGL 110KC             |   | Polyglycerin-10             |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
| Methyl Gluceth E10KCH |                                                                                        | Methyl Gluceth-10           | Skin conditioning agent<br>Excellent humectant & moisturizer<br>Less irritant, mild sensory enhancer                                                                                                            |        |  |  |  |  |  |  |  |  |  |
| Methyl Gluceth E20KC  |                                                                                                                                                                             | Methyl Gluceth-20           |                                                                                                                                                                                                                 |        |  |  |  |  |  |  |  |  |  |
| Methyl Gluceth P20KC  |                                                                                                                                                                             | PPG-20 Methyl Glucose Ether | Excellent hemectant & emollient<br>Providing fragrance fixation<br>Shaving, styling, hair & skin care products                                                                                                  |        |  |  |  |  |  |  |  |  |  |



Natural Emollient

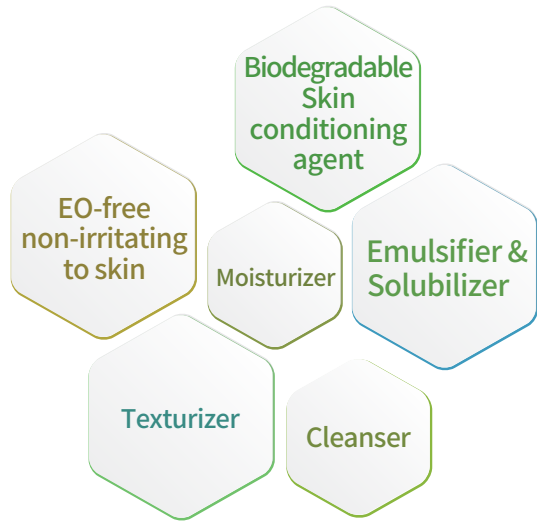
| Product Name | Certification                                                                       | INCI                                | Features/Benefits                                                                                                                                                                                   | Form   | Application |                  |              |            |                   |                 |           |         |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|
|              |                                                                                     |                                     |                                                                                                                                                                                                     |        | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |
| CEH 100KC    |    | Cetyl Ethylhexanoate                | Superior emollient & Skin conditioning agent<br>Good pigment dispersing property<br>Skin elasticity, High spreadability<br>Low viscosity oil with light & dry feel                                  | Liquid |             |                  |              |            |                   |                 |           |         |
| GCC 300KC    |                                                                                     | Caprylic/Capric Triglyceride        | Superior emollient & Skin conditioning agent<br>Thickening, Re-fattening, Foam enhancer<br>Skin elasticity, High spreadability<br>Dispersing agent<br>Skin-replenishing for sensitive and oily skin |        |             |                  |              |            |                   |                 |           |         |
| GEH 300KC    |                                                                                     | Triethylhexanoin                    | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Low viscosity oil with smooth feel                                                                           |        |             |                  |              |            |                   |                 |           |         |
| HL 100KC     |                                                                                     | Hexyl Laurate                       | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Viscosity builder<br>Low viscosity with light/fresh skin feel                                                |        |             |                  |              |            |                   |                 |           |         |
| ININ 100KC   |                                                                                     | Isononyl Isononanoate               | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Excellent pigment dispersibility & cleansing<br>Fast spreading/drying silky feel                             |        |             |                  |              |            |                   |                 |           |         |
| ICEH 100KC   |  | Isocetyl Ethylhexanoate             | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Low viscosity oil with mild & silky feel                                                                     | Liquid |             |                  |              |            |                   |                 |           |         |
| ICM 100KC    |                                                                                     | Isocetyl Myristate                  | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Low viscosity oil with mild, non-oily feel                                                                   |        |             |                  |              |            |                   |                 |           |         |
| ODM 100KC    |  | Octyldodecyl Myristate              | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Low viscosity oil with non-oily feel                                                                         |        |             |                  |              |            |                   |                 |           |         |
| PETEH 400KC  |  | Pentaerythrityl Tetraethylhexanoate | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Viscosity builder                                                                                            |        |             |                  |              |            |                   |                 |           |         |
| NPDC 100KC   |                                                                                     | Neopentyl Glycol Dicaprate          | Superior emollient & Skin conditioning agent<br>Skin elasticity, High spreadability<br>Low viscosity oil with light feel                                                                            |        |             |                  |              |            |                   |                 |           |         |



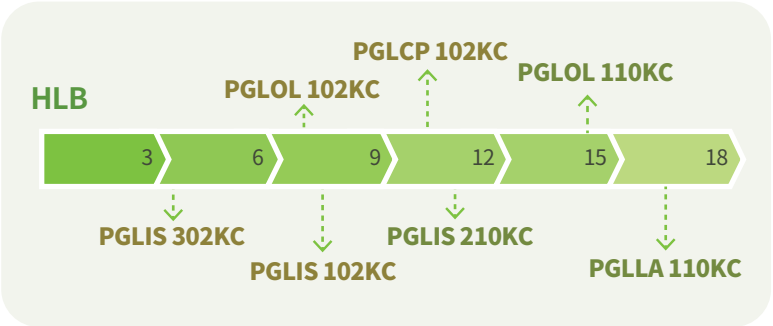
Naturally sourced PEG-free Emulsifier



Polyglycerol Fatty Acid Esters



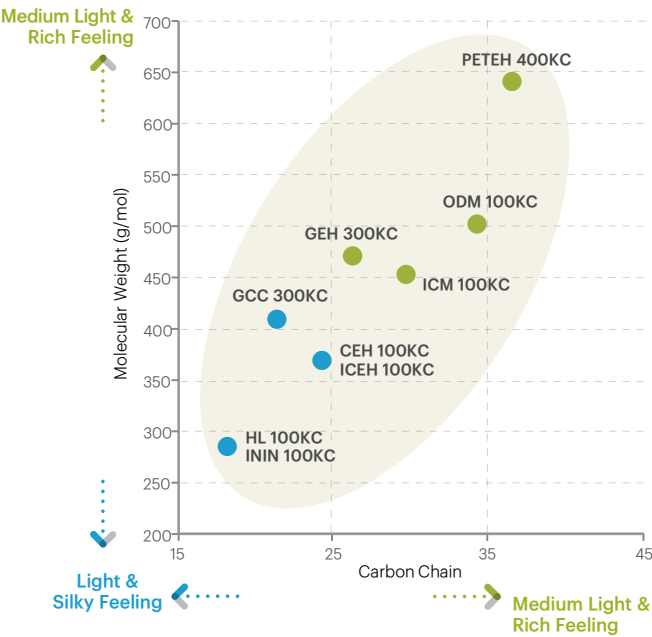
Applicable for various personal care products including Skin care, Hair care, Make-up, etc.



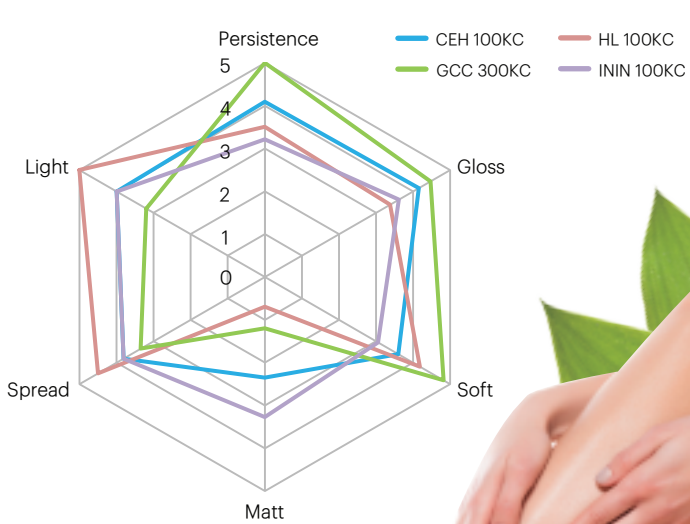
- Polyglyceryl-2 Caprate (**PGLCP 102KC**)
- Polyglyceryl-2 Triisostearate (**PGLIS 302KC**)
- Polyglyceryl-2 Isostearate (**PGLIS 102KC**)
- Polyglyceryl-2 Oleate (**PGLLOL 102KC**)
- Polyglyceryl-10 Laurate (**PGLLA 110KC**)
- Polyglyceryl-10 Diisostearate (**PGLIS 210KC**)
- Polyglyceryl-10 Oleate (**PGLLOL 110KC**)

Ester oils as Natural Emollient

Distribution Graph



Sensory Profile



Natural Emollient

Multifunctional Conditioning Agent - MPC Technology

| Product Name               | Certification                                                                     | INCI                                                         | Features/Benefits                                                                                                                                      | Typical Properties |                | Application    |                  |              |            |                   |                 |           |         |  |  |
|----------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|--|--|
|                            |                                                                                   |                                                              |                                                                                                                                                        | Form               | Preservative   | Shampoo        | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |  |  |
| Hydroquat™ 510KC           |  | Polyquaternium-51                                            | Superior skin conditioning agent using MPC, a biocompatible innovative material mimicking the surface of human cell membrane                           | Liquid             | Phenoxyethanol |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ 510STKC         |                                                                                   |                                                              |                                                                                                                                                        |                    | Phenoxyethanol |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ 510HDKC         |                                                                                   |                                                              |                                                                                                                                                        |                    | 1,2-Hexanediol |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ 510BHKC         |                                                                                   |                                                              |                                                                                                                                                        |                    | 1,2-Hexanediol |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ 510NPKC         |                                                                                   |                                                              |                                                                                                                                                        |                    | N/A            |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ PM50BPKC        |                                                                                   | Polyphosphorylcholine glycol acrylate                        | Skin barrier, moisturizer & sensory enhancer<br>Silky & smooth, reducing stickiness<br>Good skin adhesion<br>Cold processable                          |                    | Phenoxyethanol |                |                  |              |            |                   |                 |           |         |  |  |
| Hydroquat™ PM50HDKC        |                                                                                   |                                                              |                                                                                                                                                        |                    | 1,2-Hexanediol |                |                  |              |            |                   |                 |           |         |  |  |
| Phosphomer® CELLOPC40CNKC  |                                                                                   | Hydroxyethylcellulose & Polyphosphorycholine glycol acrylate | Excellent conditioning & moisturizing agent<br>Superior texturizer, smooth & soft, reducing stickiness<br>Alleviating irritation caused by surfactants |                    | Powder         | N/A            |                  |              |            |                   |                 |           |         |  |  |
| Phosphomer® CELLOPC401CNKC |                                                                                   |                                                              |                                                                                                                                                        |                    | Liquid         | Phenoxyethnaol |                  |              |            |                   |                 |           |         |  |  |

Medical: Eye Care & Pharmaceutical

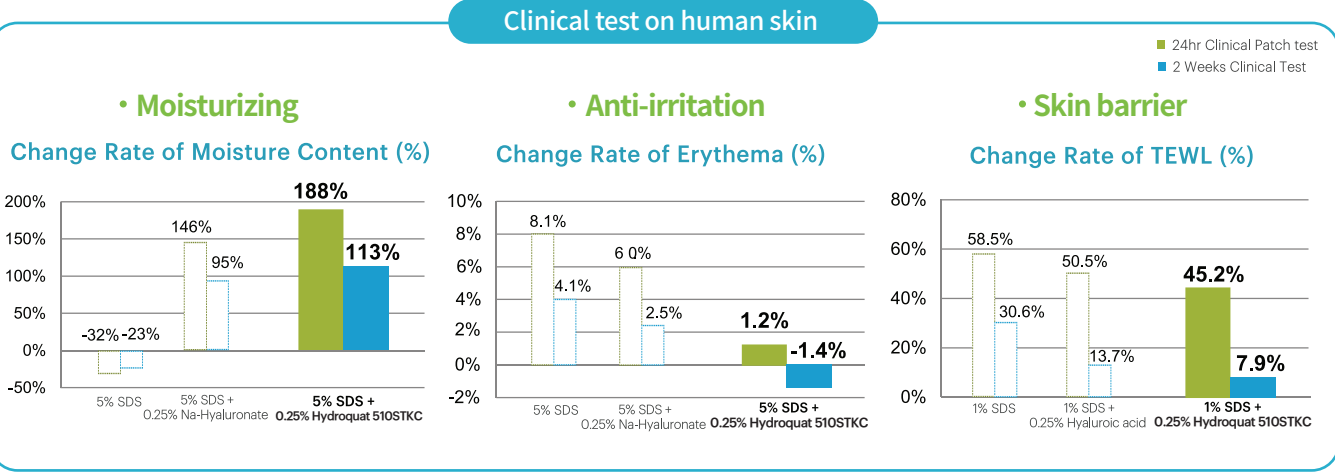
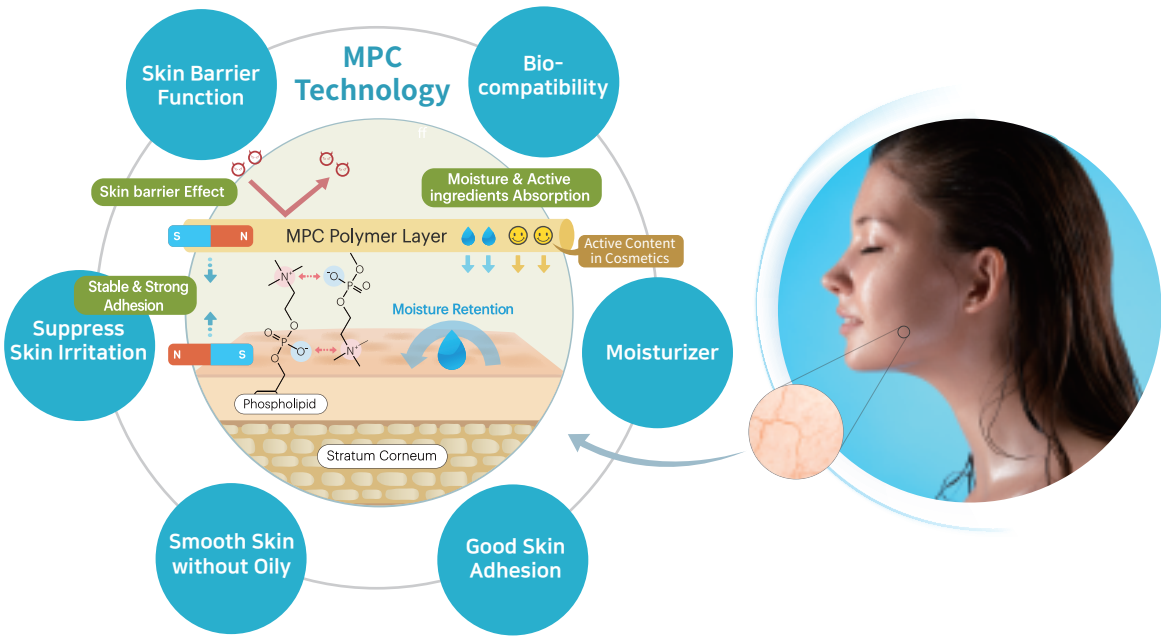
| Product Name                                                           | Certification | INCI                                                                   | Features/Benefits                                                                                                                                         | Form   |
|------------------------------------------------------------------------|---------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Icare B50KC<br><div>Contact lens cleaning &amp; storage solution</div> |               | 2-Methacryloyloxyethyl phosphorylcholine-n-butylmethacrylate copolymer | Superior biocompatibility of MPC technology enables to expand the applications from cosmetics to eye care & medical areas                                 | Liquid |
| Icare M100KC<br><div>Contact lens</div>                                |               | 2-Methacryloyloxyethyl Phosphorylcholine                               |                                                                                                                                                           | Solid  |
| Medicare M100KC<br><div>Medical devices &amp; pharmaceuticals</div>    |               | 2-Methacryloyloxyethyl Phosphorylcholine                               | [Soft contact lens with MPC]<br>Superior moisturizing effect<br>Inhibiting Protein absorption<br>Improving fitting sensory<br>Forming hydrophilic surface |        |



Biomimetic, Biocompatible

MPC, Multifunctional skin & hair conditioning agent

- ✓ Bio-mimetic structure similar to phospholipids in human cell membrane.
- ✓ Chemical name : 2-Methacryloyloxyethyl Phosphoryl Choline
- ✓ Applications
  - Hydroquat : Skin/Hair/Body care, Make-up
  - Icare : Contact lens, Contact lens storage & cleaning solution
  - Medicare : Medical devices, Pharmaceuticals



Multifunctional Conditioning Agent, Medical: Eye care & Pharmaceutical

Natural Moisturizer

| Product Name     | Certification                                                                                                                                                                                                                                         | INCI                                                                                                      | Features/Benefits                                                                                                                                                                        | Typical Properties |                 | Application |                  |              |            |                   |                 |           |         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|---------|
|                  |                                                                                                                                                                                                                                                       |                                                                                                           |                                                                                                                                                                                          | Form               | Viscosity (cPs) | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen | Make-up |
| Hydrojel CGKC    |    | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer and Propylene Glycol                             | Multifunctional thickener<br>Superior moisturizer & lubricant<br>Water-soluble non-oily emollient<br>Ready to use, cold processable<br>Leave-on clear formulation<br>Texture enhancement | Gel/ Liquid        | 200K-400K       |             |                  |              |            |                   |                 |           |         |
| Hydrojel MSKC    |                                                                                                                                                                                                                                                       | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer and Propylene Glycol                             |                                                                                                                                                                                          |                    | 250K - 350K     |             |                  |              |            |                   |                 |           |         |
| Hydrojel MFKC    |                                                                                                                                                                                                                                                       | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer                                                  |                                                                                                                                                                                          |                    |                 |             |                  |              |            |                   |                 |           |         |
| Hydrojel PFKC    |                                                                                                                                                                                                                                                       | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer and Water                                        |                                                                                                                                                                                          |                    | 200K - 400K     |             |                  |              |            |                   |                 |           |         |
| Hydrojel MPFKC   |                                                                                                                                                                                                                                                       | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer and 1,2-Hexanediol                               |                                                                                                                                                                                          | Liquid             | 250K - 350K     |             |                  |              |            |                   |                 |           |         |
| Hydrojel DVKC    |                                                                                                                                                                                                                                                       | Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer and Propylene Glycol                               |                                                                                                                                                                                          |                    | 900K - 1,200K   |             |                  |              |            |                   |                 |           |         |
| Hydrojel DPFKC   |                                                                                                                                                                                                                                                       | Glycerine and Glyceryl Acrylate / Acrylic Acid Copolymer and 1,2-Hexanediol                               |                                                                                                                                                                                          |                    |                 |             |                  |              |            |                   |                 |           |         |
| Hydrojel OILKC   |                                                                                                                                                                                                                                                       | Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer and Propylene Glycol and PVM/MA Copolymer          |                                                                                                                                                                                          |                    |                 |             |                  |              |            |                   |                 |           |         |
| Hydrojel OILPFKC |                                                                                                                                                                                                                                                       | Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer and 1,2-Hexanediol and PVM/ MA Copolymer and Water |                                                                                                                                                                                          |                    | 500 - 1,600     |             |                  |              |            |                   |                 |           |         |

Natural Oil & Sugar-based Moisturizer

|                 |                                                                                     |                                        |                                                                                                                                                                             |        |               |  |  |  |  |  |  |  |  |
|-----------------|-------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|--|--|--|--|--|--|--|--|
| Canola 100KC    |  | Canola Oil                             | Excellent skin conditioning & moisturizing agent<br>Containing the rich omega-3, 6 & 9 fatty acids<br>Good source for tocopherols & phytosterols(antioxidant & bioactivity) | Liquid |               |  |  |  |  |  |  |  |  |
| Coconut 100KC   |                                                                                     | Cocos Nucifera (Coconut) Oil           | Excellent skin conditioning & moisturizing agent<br>Improving skin elasticity and collagen production<br>Containing anti-oxidants(Vitamin E & A for antiaging)              | Solid  |               |  |  |  |  |  |  |  |  |
| Sunflower 100KC |                                                                                     | Helianthus Annuus (Sunflower) Seed Oil | Excellent skin conditioning & moisturizing agent<br>Odorless vegetable oil<br>Superior oxidation stability(Suitable for Sun care)                                           | Liquid |               |  |  |  |  |  |  |  |  |
| Allulose 70KC   |  | D-Psicose                              | Sugar alcohol based 'bio-natural' moisturizer<br>Excellent skin soothing effect                                                                                             | Liquid | 50 - 200      |  |  |  |  |  |  |  |  |
| FOS 75KC        |  | Fructo-oligosaccharides                | Sugar alcohol based 'bio-natural' moisturizer<br>Superior moisturization & skin soothing effect<br>Viscosity builder                                                        |        | 2,000 - 4,000 |  |  |  |  |  |  |  |  |
| Maltitol 70KC   |  | Maltitol                               | Sugar alcohol based natural moisturizer<br>Superior thermal/color stability<br>Excellent skin soothing effect<br>Viscosity builder                                          |        |               |  |  |  |  |  |  |  |  |



KCI Personal Care ingredients

Natural Foam Booster

| Product Name  | Certification                                                                       | INCI                      | Features/Benefits                                                                                                                                                                                                                | Typical Properties |                      | Application |                  |              |            |                   |                 |
|---------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-------------|------------------|--------------|------------|-------------------|-----------------|
|               |                                                                                     |                           |                                                                                                                                                                                                                                  | Form               | Active Substance (%) | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser |
| Amidox SO30KC |  | Soyamidopropylamine oxide | Excellent foam booster(Non-GMO soybean oil)<br>Viscosity builder & cleansing agent<br>Small & fine foam, long lasting excellent touch<br>Foaming stability at low pH<br>Enabling mild & low irritant products by using less SLES | Liquid             | 28 - 30              |             |                  |              |            |                   |                 |

Active Delivery Enhancer & Solvent

| Product Name                                                                                  | Certification                                                                       | INCI                | Features/Benefits                                                                                                                                                                                       | Form   | Application |                  |              |            |                   |                 |           |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|------------------|--------------|------------|-------------------|-----------------|-----------|
|                                                                                               |                                                                                     |                     |                                                                                                                                                                                                         |        | Shampoo     | Hair Conditioner | Hair Styling | Shower gel | Skin cream/lotion | Facial cleanser | Sunscreen |
|  DMI 100KC |  | Dimethyl Isosorbide | Active delivery enhancer<br>Viscosity decreasing agent<br>Solvent for active ingredient<br>Irritation mitigator<br>Penetration & stability enhancer<br>Excellent performance with DHA(tanning products) | Liquid |             |                  |              |            |                   |                 |           |

Preservative

| Product Name          | Certification                                                                         | INCI                                                                 | Features/Benefits                                                                       | Typical Properties |                                                                                       | Application                                                                           |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       |                                                                                       |                                                                      |                                                                                         | Form               | Active Substance (%)                                                                  | Shampoo                                                                               | Hair Conditioner                                                                      | Hair Styling                                                                          | Shower gel                                                                            | Skin cream/lotion                                                                     | Facial cleanser                                                                       | Sunscreen                                                                             | Make-up                                                                               |
| Preser 150KC / 150KCJ |  | Methyl Chloro isothiazolinone and Methyl isothiazolinone (CIT & MIT) | Highly effective antimicrobial agent with low concentration<br>Wide pH & temperature    | Liquid             | 1.3 - 1.7 / 1.46-1.54                                                                 |  |  |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| Hydantol 30KC         |  | DMDM Hydantoin                                                       | Cost effective preservative<br>Inhibiting the growth of gram positive/negative bacteria |                    | 28 - 32                                                                               |  |  |  |  |  |  |  |  |
| Hydantol 55KC         |  |                                                                      | 54 - 56                                                                                 |                    |  |  |  |  |  |  |  |  |                                                                                       |

Resin for nail polish

| Product Name          | Certification                                                                         | INCI                                                                           | Features/Benefits                                                                                               | Typical Properties |                      | Application |
|-----------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-------------|
|                       |                                                                                       |                                                                                |                                                                                                                 | Form               | Active Substance (%) |             |
| Polyester Resin 70KC  |  | Adipic Acid/Neopentyl Glycol/Trimellitic Anhydride Copolymer and Butyl Acetate | Formaldehyde free<br>Excellent gloss, adhesiveness & stability                                                  | Liquid             | 68 - 72              |             |
| Polyester Resin 100KC |                                                                                       | Adipic Acid/Neopentyl Glycol/Trimellitic Anhydride Copolymer                   | Formaldehyde free<br>Solid(solvent-free) type<br>Excellent gloss, adhesiveness & stability                      | Solid              | Abt. 100             |             |
| Resin 658KC           |                                                                                       | Toluenesulfonamide Formaldehyde Resin and Butyl Acetate                        | Toluene Sulfonamide Formaldehyde Resin<br>Excellent gloss, adhesiveness & stability                             | Liquid             | 78 - 81.5            |             |
| Resin KHP             |                                                                                       | Toluenesulfonamide Formaldehyde Resin                                          | Toluene Sulfonamide Formaldehyde Resin<br>Solid(solvent-free) type<br>Excellent gloss, adhesiveness & stability | Solid              | 99.5 Min.            |             |

Industrial: Enhanced Oil Recovery

| Product Name   | Certification | INCI          | Features/Benefits                                                    | Form   |
|----------------|---------------|---------------|----------------------------------------------------------------------|--------|
| TAMID DEA501KC |               | Tallamide DEA | O/W emulsifier<br>Foam Booster, Viscosity builder<br>Good detergency | Liquid |

