Kobo Products offers a new amino acid treatment (INCI name: Stearoyl Glutamic Acid) which can be applied to pigments, lakes and fillers. This ASG treatment renders powders hydrophobic; it helps them disperse easily in anhydrous systems and facilitates color development. In formulation, it gives a creamy feel, particularly in powder formulas. When applied on the skin, it imparts a moist feel and promotes skin adhesion. ASG treatment is natural and some of the treated pigments and fillers have received Ecocert / Cosmos approval.

Applications
Emulsions, hot pours, anhydrous gels, and powders. Materials offered presently include Iron Oxides, Organic Pigments, Titanium Dioxide, Mica, and Non-Nano Zinc Oxide. Formulation examples include a Creamy Pressed Powder and a Liquid Foundation, both employing the ASG treatment for enhanced feel and full color development.

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>INCI Name</th>
<th>Product type</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10-TiO₂-SA-ASG8</td>
<td>Titanium Dioxide (And) Aluminum Hydroxide (And) Stearoyl Glutamic Acid (And) Hydrated Silica</td>
<td>Non-Nano TiO₂</td>
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<tr>
<td>ZnO-C-ASG3J++*</td>
<td>Zinc Oxide (And) Stearoyl Glutamic Acid</td>
<td>Non-Nano Zinc Oxide</td>
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<td>ZnO-750-ASG5</td>
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<td>UV Pigment Zinc Oxide</td>
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<tr>
<td>TiO₂-IR300-ASG3</td>
<td>Titanium Dioxide (And) Stearoyl Glutamic Acid</td>
<td>IR Blocker</td>
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<td>A1K-TiO₂-ASG3</td>
<td>Titanium Dioxide (And) Aluminum Hydroxide (And) Stearoyl Glutamic Acid</td>
<td>Pigmentary Titanium Dioxide</td>
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<td>BTD-ASG2*</td>
<td>Titanium Dioxide (And) Stearoyl Glutamic Acid</td>
<td>Black Iron Oxide</td>
</tr>
<tr>
<td>BBO-ASG3*</td>
<td>Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid</td>
<td>Red Iron Oxide</td>
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<tr>
<td>BRO-ASG3*</td>
<td>Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid</td>
<td>Yellow Iron Oxide</td>
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<tr>
<td>BYO-ASG3*</td>
<td>Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid</td>
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<td>BGCO-ASG4</td>
<td>Chromium Oxide Greens (And) Stearoyl Glutamic Acid</td>
<td>Green Chromium Oxide</td>
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<td>BMV-ASG4</td>
<td>Manganese Violet (CI 77742) (And) Stearoyl Glutamic Acid</td>
<td>Manganese Violet</td>
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<tr>
<td>RED 7C D-ASG4</td>
<td>Red 7 Lake (CI 15850) (And) Stearoyl Glutamic Acid</td>
<td>D&amp;C Red No.7 Calcium Lake</td>
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<tr>
<td>YELLOW 5AL-ASG4</td>
<td>Yellow 5 Lake (CI 19140) (And) Stearoyl Glutamic Acid</td>
<td>FD&amp;C Yellow No.5 Aluminum Lake</td>
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<tr>
<td>BLUE 1AL-ASG4</td>
<td>Blue 1 Lake (And) Stearoyl Glutamic Acid</td>
<td>FD&amp;C Blue No.1 Aluminum Lake</td>
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<tr>
<td>GMS-ASG3</td>
<td>Mica (And) Stearoyl Glutamic Acid</td>
<td>Sericite</td>
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<td>MICA S-ASG3</td>
<td></td>
<td>Mica</td>
</tr>
<tr>
<td>TALC N-ASG4</td>
<td>Talc (And) Stearoyl Glutamic Acid</td>
<td>Talc</td>
</tr>
</tbody>
</table>
**KMU-023B**

### Natural Eyebrow Filler

#### Part 1
- **MICA S-ASG3** - Kobo Products:  
  - Mica (And) Stearoyl Glutamic Acid 15.65%
- **ZnO-C-ASG3J** - Kobo Products:  
  - Zinc Oxide (And) Stearoyl Glutamic Acid 15.65%
- **BB0-ASG3** - Kobo Products:  
  - Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid 9.04%
- **MSS-500W** - Kobo Products:  
  - Polyglyceryl-3 Diisostearate 7.87%
- **BRO-ASG3** - Kobo Products:  
  - Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid 5.50%
- **BYO-ASG3** - Kobo Products:  
  - Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid 3.14%

#### Part 2
- **Protachem CTG** - Protameen:  
  - Caprylic/Capric Triglyceride 18.37%
- **Cetiol CC** - BASF:  
  - Dicaprylyl Carbonate 7.60%
- **SunBoost ATB Natural** - Kobo Products:  
  - Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol 4.75%
- **COSMOL 43V** - Ikeda:  
  - Polyglyceryl-2 Triisostearate 3.63%
- **Carnauba Wax SP 63P** - Strahl & Pitsch:  
  - Copernicia Cerifera (Carnauba) Wax 0.40%
- **Plandool LG1** - Kobo Products:  
  - Phytosteryl/Behenyl/Octyldodecyl Lauroyl Glutamate 1.00%

#### Part 3
- **ASG Treatment**
  - **BRO-ASG3** - Kobo Products:  
    - Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid 0.60%
  - **BB0-ASG3** - Kobo Products:  
    - Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid 0.10%

### Manufacturing Procedure
2. Heat Part 2 to 80°C under propeller agitation.
3. Slowly add Part 1 to Part 2 under prop mixer and start to gradually cool.
4. Slowly add Parts 3 and 4, respectively, to Parts 1 and 2 at 45°C.

### Description
This natural eyebrow filler features Kobo’s ASG treated fillers and pigments which help to impart color, payoff and adherence to brows. Kobo’s silica microsphere, MSS-500W, provides payoff and glide during application. SunBoost ATB Natural is a proprietary ratio of anti-oxidant, anti-irritant and anti-inflammatory agents that nourishes brows. Kobo’s cellulose fiber, CELL-U-LASH™ 40, fills in pigments which help to impart color, payoff and adhesion to brows. Plandool-LG1 improves malleability of the wax complex which increases bulk transfer to the brow.

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**KCP-050**

### Sculpting Cream-to-Powder Concealer with US-450

#### Part 1
- **ELEMENT14 PDMS 5-A** - Momentive: Dimethicone 14.00%
- **CXG-1104** - Avantor/Kobo Products: Dimethicone/Dimethicone/Vinyl Dimethicone Crosspolymer 9.90%
- **Versagel ME750** - Penreco: Hydrogenated Polysibutene (and) Ethylene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer 7.70%
- **COSMOL 222** - Ikeda: Diisostearyl Malate 6.00%
- **KOBOGUARD MQ60DM** - Kobo Products: Trimethylsiloxyisilicate (And) Dimethicone 4.70%
- **SW5M5** - Kobo Products: Synthetic Wax (And) Silica 3.00%
- **Lameform TGI** - Cognis: Polyglycerol-3 Diisostearate 2.60%
- **Velvetil 034** - Momentive: Caprylyl Methicone (And) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer 1.65%
- **PHENOKETOL** - Clariant: Phenoxyethanol 0.60%

#### Part 2
- **PM WAX 82** - Toray/Kobo Products:  
  - Polyoxyethylene (And) Microcrystalline Wax 4.95%
- **NOMCORT HK-G** - Ikeda: Glycerin/Behenate/Eicosadioate 1.65%
- **Softisan 100** - Sasol: Hydrogenated Coco-Glycerides 0.85%

#### Part 3
- **US-450** - Nikko/Kobo Products:  
  - HDI/Trimethylol Hexyl lactone Crosspolymer (And) Polymethylsilsesquioxane 25.00%
- **BTD-ASG2** - Kobo Products:  
  - Titanium Dioxide (And) Stearoyl Glutamic Acid 14.65%
- **BYO-ASG3** - Kobo Products:  
  - Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid 1.95%

#### Part 4
- **CELL-U-LASH 40** - Kobo Products:  
  - Cellulose 1.00%

### Manufacturing Procedure
2. Slowly add Part 2 to batch until homogeneous.
3. Slowly add Part 3 until the color is fully developed.
4. Slowly add Part 4 in increments, then add Part 3.
5. Pour at 75°C.

### Description
This is an anhydrous hot pour (balm) that transforms into a powder when applied on skin. US-450 acts as a payoff enhancer and provides protection from Blue Light. CXG-1104 is a silicone elastomer that imparts a silky, powdery after feel. KOBOGUARD MQ60DM is an oil phase resin dispersed in Dimethicone. This flexible film former improves wear. Kobo’s fumed silica gellant, SW5M5, gives the formula the ability to glide upon application. PM WAX 82 is a combination of hydrocarbon waxes used to structure the formula. ASG treated pigments provide a creamy feel and ease the process of dispersion.