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- **Sun Care Products**
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Notes: Contact our NJ office or your sales representative for samples and other inquiries.

# 1 Amino Acid-based Surfactants

## Eversoft™ Series

**Eversoft™** is a series of amino acid based surfactants, which are derived from natural materials. Eversoft™ series include Glutamates, Glycinates, Alaninates and Sarcosinates.

Trade Name	INCI Name	Solids	pH
Eversoft™ UCS-30S  <b>COSMOS</b>	Disodium Cocoyl Glutamate	30%	10.0-11.0
Eversoft™ UCS-40S <b>COSMOS</b>	Disodium Cocoyl Glutamate	40%	8.0-9.0
Eversoft™ UCS-50SG  <b>COSMOS</b>	Disodium Cocoyl Glutamate	50%	10.0-12.0
Eversoft™ ULS-30S  <b>COSMOS</b>	Sodium Lauroyl Glutamate	30%	10.0-11.0
Eversoft™ ULS-30SN <b>COSMOS</b> ☆ <sup>new</sup>	Sodium Lauroyl Glutamate	30%	10.0-11.0
Eversoft™ UMS-30S	Sodium Myristoyl Glutamate	30%	10.0-11.0
Eversoft™ UMK-40K	Potassium Myristoyl Glutamate	40%	10.0-11.0
Eversoft™ UCK-40K	Potassium Cocoyl Glutamate	40%	10.0-11.0
Eversoft™ UOS-30S	Disodium Oleoyl Glutamate (Proposed)	30%	10.0-11.0
Eversoft™ YCS-30S	Sodium Cocoyl Glycinate	30%	10.0-11.0
Eversoft™ YCS-30	Sodium Cocoyl Glycinate	30%	8.0-10.0 (10% a.q.)
Eversoft™ YLS (G Type)	Sodium Lauroyl Glycinate	30%	10.0-11.0
Eversoft™ YCK-30K	Potassium Cocoyl Glycinate	30%	8.5-10.5 (10% a.q.)
Eversoft™ YCK	Potassium Cocoyl Glycinate	30%	7.0-9.0 (10% a.q.)
Eversoft™ S-12	Sodium Lauroyl Sarcosinate	30%	7.5-8.5 (10% a.q.)
Eversoft™ ACS	Sodium Cocoyl Alaninate	30%	7.0~9.0
Eversoft™ ACS-30S <b>COSMOS</b>	Sodium Cocoyl Alaninate	30%	8.0-10.0
Eversoft™ UCS-100S <b>COSMOS</b>	Disodium Cocoyl Glutamate	100%	8.0-10.0 (5% a.q.)
Eversoft™ UCS-100	Disodium Cocoyl Glutamate	100%	7.0-9.0 (5% a.q.)
Eversoft™ UCS-100L	Disodium Cocoyl Glutamate	100%	7.0-9.0 (5% a.q.)
Eversoft™ ULS-100S  <b>COSMOS</b>	Sodium Lauroyl Glutamate	100%	9.0-11.0 (5% a.q.)
Eversoft™ YCS-100S	Sodium Cocoyl Glycinate	100%	10.0-11.0 (5% a.q.)
Eversoft™ YCS-100	Sodium Cocoyl Glycinate	100%	6.5-9.0 (5% a.q.)
Eversoft™ YCK-100K	Potassium Cocoyl Glycinate	100%	8.5-10.5 (3% a.q.)
Eversoft™ YCK-100	Potassium Cocoyl Glycinate	100%	6.5-9.0 (3% a.q.)
Eversoft™ TCS-40SH ☆ <sup>new</sup>	Sodium Methyl Cocoyl Taurate	40%	7.0-8.5 (10% a.q.)
Eversoft™ TCS-30S ☆ <sup>new</sup>	Sodium Methyl Cocoyl Taurate	30%	7.0-8.0 (10% a.q.)
Eversoft™ TLS-30(P) ☆ <sup>new</sup>	Sodium Methyl Lauroyl Taurate	30%	4.0-5.0
Eversoft™ TLS-100 ☆ <sup>new</sup>	Sodium Methyl Lauroyl Taurate	100%	6.0-8.0 (5% a.q.)

**Eversoft™ UCS-30S (INCI Name: Disodium Cocoyl Glutamate)  COSMOS**

**Eversoft™ UCS-30S** is a 30% liquid form of Disodium Cocoyl Glutamate, which has about 30% solid content and 25% active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 5.0-15.0%.

**Eversoft™ UCS-40S (INCI Name: Disodium Cocoyl Glutamate) COSMOS**

**Eversoft™ UCS-40S** is a 40% liquid form of Disodium Cocoyl Glutamate. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is a concentrated version of Eversoft™ UCS-30S.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 15.0-38.0%; Co-surfactant: 3.5-12.0%.

**Eversoft™ UCS-50SG (INCI Name: Disodium Cocoyl Glutamate)  COSMOS**

**Eversoft™ UCS-50SG** is a 50% liquid form of Disodium Cocoyl Glutamate, which has about 50% solid content and high active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is easier to get relatively higher viscosity.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water
- Better stability at low temperature
- Lower transport costs

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 12.0-30.0%; Co-surfactant: 3.0-9.0%.

**Eversoft™ UCS-100S (INCI Name: Disodium Cocoyl Glutamate) COSMOS**

**Eversoft™ UCS-100S** is the powder form of Disodium Cocoyl Glutamate with no higher than 16% salt. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water
- Lower transport costs

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.5-4.5%.

**Eversoft™ UCS-100 (INCI Name: Disodium Cocoyl Glutamate)**

**Eversoft™ UCS-100** is the powder form of Disodium Cocoyl Glutamate with no higher than 3% salt. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water
- Lower transport costs

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.5-4.5%.

**Eversoft™ UCS-100L (INCI Name: Disodium Cocoyl Glutamate)**

**Eversoft™ UCS-100L** is the powder form of Disodium Cocoyl Glutamate with no higher than 0.4% salt. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water
- Lower transport costs

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.5-4.5%.

**Glutamix™ A-50 (Chemical Name: Sodium Cocoyl Glutamate Surfactant Blend)**

**Glutamix™ A-50** is a mild, cost-effective, high-performing, easy to use Glutamate surfactant blend.

**Properties:**

- PEG-free, EO & PO-free, Polymer-free, Sulfate-free Surfactant Blends
- Capable of self-thickening with adjustment of pH within 4.8-5.8



- Cold Process Capable
- No polymer thickener needed, but may work synergistically if desired

**Applications:** Sulfate-Free Body Wash, Hair Shampoo, Facial Cleansers, Hand Cleansers, Baby Head-to-Toe Cleanser, Feminine Wash, Dish Detergent, Carpet Cleaners; Home Cleaners; Diary Cleaners, DIY products; Spa/Salon Products; all cleansing products.

**Use Levels:** 30.0-48.0%.

### **Thickmate™ A (Chemical Name: Mild Surfactant)**

Thickmate™ A—— Thickening Companion & Co-Surfactant for Glutamate Surfactants.

#### **Properties:**

- PEG-free, EO & PO-free, Polymer-free, Sulfate-free Surfactant Blends
- Capable of self-thickening with adjustment of pH within 4.8-5.8
- Cold Process Capable
- No polymer thickener needed, but may work synergistically if desired

**Applications:** Sulfate-Free Body Wash, Hair Shampoo, Facial Cleansers, Hand Cleansers, Baby Head-to-Toe Cleanser, Feminine Wash, Dish Detergent, Carpet Cleaners; Home Cleaners; Diary Cleaners, DIY products; Spa/Salon Products; all cleansing products.

**Use Levels:** 10.0-22.0%.

### **★new Glutamix™ NOC-100 (INCI Name: Water, Disodium Cocoyl Glutamate, Glycerin, Sodium Cocoyl Alaninate, Lauryl Glucoside, Hydrolyzed Corn Starch, Ethyl Lauroyl Arginate HCl, Citric Acid, Glyceryl Glucoside, Sodium Citrate, Polylysine)**

Glutamix™ NOC-100 is a 100% natural origin, environmentally friendly surfactant blend.

#### **Properties:**

- 100% natural origin, readily biodegradable
- Good cleaning ability and mild performance
- High and stable foaming power
- Mild surfactant which leaves skin an extremely pleasant silky feel

**Applications:** Personal care products such as facial cleansing mousse, shower foam and children's shampoo and shower 2 in 1, etc.

**Use Levels:** 25.0-50.0 %.

**Eversoft™ ULS-30S (INCI Name: Sodium Lauroyl Glutamate)  COSMOS**

**Eversoft™ ULS-30S** is a 30% liquid form of Sodium Lauroyl Glutamate, which has about 30% solid content and 25% active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

**Properties:**

- Mild surfactant which leaves skin an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ ULS-30SN (INCI Name: Sodium Lauroyl Glutamate) COSMOS**

**Eversoft™ ULS-30S** is a 30% liquid form of Sodium Lauroyl Glutamate. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid. It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ ULS-100S (INCI Name: Sodium Lauroyl Glutamate)  COSMOS**

**Eversoft™ ULS-100S** is the powder form of Sodium Lauroyl Glutamate with no higher than 16% salt. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water
- Lower transport costs

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.0-5.0%.

**Eversoft™ UMS-30S (INCI Name: Sodium Myristoyl Glutamate) \***

**Eversoft™ UMS-30S** is a 30% liquid form of Sodium Myristoyl Glutamate, which has about 30% solid content and 25% active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ UMK-40K (INCI Name: Potassium Myristoyl Glutamate) \***

**Eversoft™ UMK-40K** is a 40% liquid form of Potassium Myristoyl Glutamate, which has about 40% solid content and high active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

**Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product

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\* make to order

- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant:1.0-15.0%.

### **Eversoft™ UCK-40K (INCI Name: Potassium Cocoyl Glutamate)**

**Eversoft™ UCK-40K** is a 40% liquid form of Potassium Cocoyl Glutamate, which has about 40% solid content and high active content. It is a very mild surfactant for personal care, based on L-glutamic acid, a naturally occurring amino acid.

#### **Properties:**

- Mild surfactant which leaves skin with an extremely pleasant silky feel
- High foaming power particularly in the acid range
- Improves the overall foam structure of the product
- Improves hair wet/dry combability
- Excellent biodegradability
- Moderate tolerance to salt and hard water

**Applications:** It is used mainly for the production of hair and body care products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products that are gentle to the skin.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant:1.0-15.0%.

### **Eversoft™ UOS-30S (Proposed INCI Name: Disodium Oleoyl Glutamate)**

**Eversoft™ UOS-30S** is a 30% liquid form of Disodium Oleoyl Glutamate. It is a strong anionic, o/w emulsifier based on amino acid, is effective even in very low concentrations. It is highly flexible and can be mixed into the oil phase or water phase, can be used in hot or cold process formulations and can be used in a variety of applications. Due to its longer carbon chain and hydrophobicity, it could be used to formulate heavy duty liquid dish wash and laundry detergent.

#### **Properties:**

- Strong O/W emulsifier at low concentration
- High compatibility with electrolytes including water-soluble UV filters
- Good skin compatibility and after-feel
- Supports formation of lamellar gels
- Low concentration allows easy adjustment of sensorics with emollients, waxes and polymers

**Applications:** Sun care face and body care products with high levels of actives.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

### **Eversoft™ YCS-30S (INCI Name: Sodium Cocoyl Glycinate)**

**Eversoft™ YCS-30S** is a 30% liquid form of Sodium Cocoyl Glycinate, which has about 30% solid content and 25% active content. It is a super mild surfactant, which provides excellent cleansing properties with luxurious after-feel. The manufacturing process for this product is totally green and environmentally friendly because there is zero emission and zero waste during the whole production process.

#### **Properties:**

- Super mild surfactant derived from amino acid
- High foaming power
- Creamy and elastic foam
- Imparts silky and invigorating after-feel
- As co-surfactant, reduce irritancy and improve foam attribute
- Biodegradable

**Applications:** Shower gels, facial cleansers, bath soaps, shampoos, toothpastes, hand cleaners, lens cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

### **Eversoft™ YCS-30 (INCI Name: Sodium Cocoyl Glycinate)**

**Eversoft™ YCS-30** is a 30% liquid form of Sodium Cocoyl Glycinate with low salt. It is a super mild surfactant, which provides excellent cleansing properties with luxurious after-feel. The manufacturing process for this product is totally green and environmentally friendly because there is zero emission and zero waste during the whole production process.

#### **Properties:**

- Super mild surfactant derived from amino acid
- High foaming power
- Creamy and elastic foam
- Imparts silky and invigorating after-feel
- As co-surfactant, reduce irritancy and improve foam attribute
- Biodegradable

**Applications:** Shower gels, facial cleansers, bath soaps, shampoos, toothpastes, hand cleaners, lens cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

### **Eversoft™ YCS-100S (INCI Name: Sodium Cocoyl Glycinate)**

**Eversoft™ YCS-100S** is the powder form of Sodium Cocoyl Glycinate with no higher than 20% salt. It is a super mild surfactant, which provides excellent cleansing properties

with luxurious after-feel. The manufacturing process for this product is totally green and environmentally friendly because there is zero emission and zero waste during the whole production process.

**Properties:**

- Super mild surfactant derived from amino acid
- High foaming power
- Creamy and elastic foam
- Imparts silky and invigorating after-feel
- As co-surfactant, reduce irritancy and improve foam attribute
- Biodegradable
- Lower transport costs

**Applications:** Shower gels, facial cleansers, bath soaps, shampoos, toothpastes, hand cleaners, lens cleaners, etc.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.0-5.0%.

**Eversoft™ YCS-100 (INCI Name: Sodium Cocoyl Glycinate)**

**Eversoft™ YCS-100** is the powder form of Sodium Cocoyl Glycinate with no higher than 7% salt. It is a super mild surfactant, which provides excellent cleansing properties with luxurious after-feel. The manufacturing process for this product is totally green and environmentally friendly because there is zero emission and zero waste during the whole production process.

**Properties:**

- Super mild surfactant derived from amino acid
- High foaming power
- Creamy and elastic foam
- Imparts silky and invigorating after-feel
- As co-surfactant, reduce irritancy and improve foam attribute
- Biodegradable
- Lower transport costs

**Applications:** Shower gels, facial cleansers, bath soaps, shampoos, toothpastes, hand cleaners, lens cleaners, etc.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.0-5.0%.

**Eversoft™ YCK-30K (INCI Name: Potassium Cocoyl Glycinate)**

**Eversoft™ YCK-30K** is a 30% liquid form of Potassium Cocoyl Glycinate with high salt content. It is known for leaving a clean and gentle feel on the skin after use. It is an anionic surfactant derived from amino acid glycine, which is a main component of human skin collagen, and coconut fatty acid. When complexed with fatty acids, Eversoft™ YCK-30K exhibits a synergistic effect and yields a higher quality of

elasticity as well as volume of foam. This effect makes it most suitable for body washes and facial cleansing foams.

**Properties:**

- Derived from natural products and with excellent biodegradability
- Mild and hypoallergenic
- High foaming powder and easy for cleaning
- Excellent cleaner even in hard water
- Leaves skin with mild smooth and fresh after-feel
- Biodegradable

**Applications:** Baby cleansing product, bath lotion, shower gels, shampoos, facial cleansers, hand cleaners.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ YCK (INCI Name: Potassium Cocoyl Glycinate)**

**Eversoft™ YCK** is a 30% liquid form of Potassium Cocoyl Glycinate with low salt content. It is known for leaving a clean and gentle feel on the skin after use. It is an anionic surfactant derived from amino acid glycine, which is a main component of human skin collagen, and coconut fatty acid. When complexed with fatty acids, Eversoft™ YCK exhibits a synergistic effect and yields a higher quality of elasticity as well as volume of foam. This effect makes it most suitable for body washes and facial cleansing foams.

**Properties:**

- Derived from natural products and with excellent biodegradability
- Mild and hypoallergenic
- High foaming powder and easy for cleaning
- Excellent cleaner even in hard water
- Leaves skin with mild smooth and fresh after-feel
- Biodegradable

**Applications:** Baby cleansing product, bath lotion, shower gels, shampoos, facial cleansers, hand cleaners.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ YCK-100K (INCI Name: Potassium Cocoyl Glycinate)**

**Eversoft™ YCK-100K** is a powder form of Potassium Cocoyl Glycinate with no higher than 20% salt. It is known for leaving a clean and gentle feel on the skin after use. It is an anionic surfactant derived from amino acid glycine, which is a main component of human skin collagen, and coconut fatty acid. When complexed with fatty acids, Eversoft™ YCK-100K exhibits a synergistic effect and yields a higher quality of

elasticity as well as volume of foam. This effect makes it most suitable for body washes and facial cleansing foams.

**Properties:**

- Naturally derived and eco-friendly ingredient
- Extremely Mild and water hardness resistant
- Extremely Biodegradable
- Excellent foamer and cleaner
- Leaves skin with mild smooth and fresh after-feel
- Lower transport costs

**Applications:** Baby cleansing product, bath lotion, shower gels, shampoos, facial cleansers, hand cleaners.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.0-5.0%.

**Eversoft™ YCK-100 (INCI Name: Potassium Cocoyl Glycinate)**

**Eversoft™ YCK-100** is a powder form of Potassium Cocoyl Glycinate with no higher than 3% salt content. It is known for leaving a clean and gentle feel on the skin after use. It is an anionic surfactant derived from amino acid glycine, which is a main component of human skin collagen, and coconut fatty acid. When complexed with fatty acids, Eversoft™ YCK-100 exhibits a synergistic effect and yields a higher quality of elasticity as well as volume of foam. This effect makes it most suitable for body washes and facial cleansing foams.

**Properties:**

- Naturally derived and eco-friendly ingredient
- Extremely Mild and water hardness resistant
- Extremely Biodegradable
- Excellent foamer and cleaner
- Leaves skin with mild smooth and fresh after-feel
- Lower transport costs

**Applications:** Baby cleansing product, bath lotion, shower gels, shampoos, facial cleansers, hand cleaners.

**Use Levels:** Primary surfactant: 6.0-15.0%; Co-surfactant: 1.0-5.0%.

**Eversoft™ YLS(G Type) (INCI Name: Sodium Lauroyl Glycinate)**

**Eversoft™ YLS(G Type)** is a 30% liquid form of Sodium Lauroyl Glycinate, which has about 20% active content. It is a biodegradable, mild surfactant for personal care applications.

**Properties:**

- Super mild surfactant derived from amino acid
- High foaming power



- Creamy and elastic foam
- Imparts silky and invigorating after-feel
- As co-surfactant, reduce irritancy and improve foam attribute
- Biodegradable

**Applications:** Shower gels, facial cleansers, bath soaps, shampoos, toothpastes, hand cleaners, lens cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

### **Eversoft™ S-12 (INCI Name: Sodium Lauroyl Sarcosinate)**

**Eversoft™ S-12** is a 30% liquid form of Sodium Lauroyl Sarcosinate, which has about 30% solid content and 25% active content. It is super mild surfactant derived from amino acid with high foaming power.

#### **Properties:**

- Super mild surfactant derived from amino acid
- High foaming power
- Biodegradable, friendly to environment
- Compatible with polyquaternium cationics and phenolic bactericides
- As co-surfactant, reduce irritancy and improve foam attribute
- High tolerance to salt and hard water
- Cost effective
- Anticorrosive to metallic materials

**Applications:** Bath soaps, shower gels, shampoos, toothpastes, facial cleansers, hand cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

### **Eversoft™ ACS (INCI Name: Sodium Cocoyl Alaninate) COSMOS**

**Eversoft™ ACS** is a 30 % liquid form of Sodium Cocoyl Alaninate. It has about 30% solid content and minimal Sodium chloride. It is a gentle surfactant synthesized from L-alanine and coconut oil fatty acid. When blended with cationic polymers, it can leave a good conditioning effect, making the hair and skin soft, smooth and moisturized.

#### **Properties:**

- Mild and moisturizing surfactant.
- Biodegradable, friendly to environment
- Compatible with polyquaternium cationics and phenolic bactericides
- Good foaming ability. In weak acid and neutral conditions, it could produce elastic, rich, creamy foam.
- As co-surfactant, reduce irritancy and improve foam attribute.

**Applications:** Bath soaps, shower gels, shampoos, facial cleansers, hand cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**Eversoft™ ACS-30S (INCI Name: Sodium Cocoyl Alaninate) COSMOS**

**Eversoft™ ACS-30S** is a 30% liquid form of Sodium Cocoyl Alaninate. It has about 30% solid content and 5% sodium chloride. It is a gentle surfactant synthesized from L-alanine and coconut oil fatty acid. When blended with cationic polymers, it can leave a good conditioning effect, making the hair and skin soft, smooth and moisturized.

**Properties:**

- Mild and moisturizing surfactant
- Biodegradable, friendly to environment
- Compatible with polyquaternium cationics and phenolic bactericides
- Good foaming ability. In weak acid and neutral conditions, it could produce elastic, rich, creamy foam
- As co-surfactant, reduce irritancy and improve foam attribute

**Applications:** Bath soaps, shower gels, shampoos, facial cleansers, hand cleaners, etc.

**Use Levels:** Primary surfactant: 20.0-50.0%; Co-surfactant: 1.0-15.0%.

**☆new Eversoft™ TCS-30S (INCI Name: Sodium Methyl Cocoyl Taurate)**

**Eversoft™ TCS-30S** is a mild anionic surfactant with excellent detergency and wetting properties that contributes rich, dense foam to personal care products. It has very good foaming capacity, foam-stabilizing effect, excellent foaming even in presence of high oil concentration. It acts as cleansing and degreasing surfactant. In combination with other suitable detergents from the product range.

**Eversoft™ TCS-30S** is particularly effective as a dispersant in hard water and high electrolyte solutions. It is typically used as a secondary surfactant in syndet bar or liquid skin cleanser. It can also be used for the preparation of liquid shampoos, bubble-bath preparations and similar products.

**Properties:**

- Excellent foaming even in presence of high oil concentration
- Hard water resistance
- Excellent foaming boosting at all pH ranges
- Good cleaning and degreasing properties
- Ideal for mild facial cleansers

**Applications:** Shampoo, Facial cleanser, Liquid soap and Shower gel.

**Use Levels:** 3-40 % as main or co-surfactant.

**☆new Eversoft™ TCS-40SH (INCI Name: Sodium Methyl Cocoyl Taurate)**

**Eversoft™ TCS-40SH** is a mild anionic surfactant with excellent detergency and wetting properties that contributes rich, dense foam to personal care products. It has very

good foaming capacity, foam-stabilizing effect, excellent foaming even in presence of high oil concentration. It acts as cleansing and degreasing surfactant in combination with other suitable detergents.

**Eversoft™ TCS-40SH** is particularly effective as a dispersant in hard water and high electrolyte solutions. It is typically used as a secondary surfactant in syndet bar or liquid skin cleanser. It can also be used for the preparation of liquid shampoos, bubble-bath preparations and similar products.

**Properties:**

- Excellent foaming even in presence of high oil concentration
- Hard water resistance
- Excellent foaming boosting at all pH ranges
- Good cleaning and degreasing properties
- Ideal for mild facial cleaners

**Applications:** Shampoo, Facial cleanser, Liquid soap and Shower gel.

**Use Levels:** 3-50 % as main or co-surfactant.

☆**new** **Eversoft™ TLS-30 (P) (INCI Name: Sodium Methyl Lauroyl Taurate)**

**Eversoft™ TLS-30 (P)** is the preservative-containing version of Eversoft™ TLS-30. Sodium Benzoate is added as a preservative. The properties are the same as Eversoft™ TLS-30.

**Properties:**

- Excellent foaming even in presence of high oil concentration
- Hard water resistance
- Excellent foaming boosting at all pH ranges
- Good cleaning and degreasing properties
- Ideal for mild facial cleaners

**Applications:** Shampoo, Facial cleanser, Liquid soap and Shower gel.

**Use Levels:** 3-50 % as main or co-surfactant.

☆**new** **Eversoft™ TLS-100 (INCI Name: Sodium Methyl Lauroyl Taurate)**

**Eversoft™ TLS-100** is the powder form of Sodium Methyl Lauroyl Taurate with low salt. It is particularly effective as a dispersant in hard water and high electrolyte solutions. It is typically used as a secondary surfactant in syndet bar or liquid skin cleanser. It can also be used for the formulation prefer a powder ingredient.

**Properties:**

- Excellent foaming even in presence of high oil concentration
- Hard water resistance
- Excellent foaming boosting at all pH ranges

- Good cleaning and degreasing properties
- Ideal for mild facial cleaners
- Lower transport costs

**Applications:** Shampoo, Facial cleanser, Liquid soap and Shower gel.

**Use Levels:** 1-13 % as main or co-surfactant.

**★new Eversoft™ SuperMix A200 (INCI Name: Disodium Cocoyl Glutamate, Glycerin, Sodium Cocoyl glycinate, Sodium Lauroamphoacetate, Tetrasodium Glutamate Diacetate)**

**Eversoft™ SuperMix A200** is a 5x concentrate, a ready-to-use blend containing major ingredients that are needed for a foaming hand wash, including mild and naturally derived amino acid based surfactant. Other ingredients also include natural humectant and naturally derived chelating agent. The formulation makes perfect mild foaming hand wash with skin care benefit.

As a concentrate liquid solution, Eversoft™ SuperMix A200 is a slightly yellowish to amber, clear to slightly turbid, viscous liquid. It is very convenient and easy to convert the concentrate into foaming hand wash. Diluting the concentrate 5x times ( A200 : H<sub>2</sub>O = 1 : 4 ) and adding preservatives and a fragrance of your choice, a finished product is ready for packaging into pump bottles for consumers, resulting in an excellent foaming hand wash that produces creamy and dense foam for hand wash, giving consumers a pleasant and luxurious washing experience and mild, soft, refreshing after-wash skin feel. Such foaming hand wash is best suited for frequent hand washing because of its super mild, non-drying, and silky skin feel attributable to its unique 100% natural derived amino acid based sodium cocoyl glutamate.

**Properties:**

- Super mild, non-drying, and silky soft skin feel
- Mild and naturally derived amino acid based surfactant
- Particularly well suited for frequent hand wash
- PEG-free, EO & PO-free, Polymer-free, Sulfate-free blend
- Cold process capable
- Creamy and dense foam provides pleasant and luxurious washing experience
- A cost-effective concentrate & total solution for foaming hand wash for daily use

**Besides foaming hand wash, this concentrate can also be readily diluted into various foaming wash products, such as foaming face wash, foaming body wash, and foam baby wash.**

## 2 Green Preservatives and Boosters

### **Everguard™ LAE-20 (INCI Name: Ethyl lauroyl arginate HCl, Glycerin)**

#### **COSMOS**

#### **Properties:**

**EverGuard™ LAE-20** is based on a 20% solution of Ethyl lauroyl arginate HCl in glycerin. Ethyl lauroyl arginate HCl, a GRAS preservative, is synthesized from naturally occurring substance - lauric acid, L-arginine and ethanol. It combines a high antimicrobial efficacy with low toxicity, non-sensitizing and non-skin irritating features. It can provide smoothness to skin and hair because of its cationic nature. Due to its cationic surfactant chemical structure, the main characteristic of this molecule is a wide range of antimicrobial property against bacteria (such as Gram positive and Gram negative), molds and yeasts. Additionally, Ethyl lauroyl arginate HCl as food additive, offers a remarkable degree of safety.

#### **Applications:**

EverGuard™ LAE-20 is a multifunctional innovative product that can be used by the formulators as preservative in personal care products (creams, lotions, body milks, hair conditioners etc.) and as an active ingredient in soaps, antidandruff shampoos, deodorants and oral care products.

#### **Use Levels:**

Common personal care products, except makeup products, oral products and spray products: 0.25 - 2.0%.

Soap, dandruff shampoo and spray deodorant: 0.25 - 4.0%.

### **Everpro™ LCG (INCI Name: Ethyl lauroyl arginate HCl, Caprylyl Glycol, Glycerin)**

The sources of EverPro™ LCG are natural, so it is a safe, mild, broad-spectrum antimicrobial and efficient preservative system.

#### **Properties:**

- Mild cationic surfactant, natural sources, low irritating, highly biodegradable, environmentally friendly.
- Antistatic properties, supple conditioner, soften the hair, improve the gloss of hair, smooth the skin, and assistant emulsifier.
- Excellent broad spectrum antibacterial activity, can be used as preservatives or preservative auxiliaries to enhance preservative effect, then can be used for the preparation of traditional preservative-free products.

- Avoid the use of traditional preservatives such as parabens, formaldehyde releasers, reduce the irritation and allergies caused by preservatives.
- Good solubility in water makes it easy to be added to formulation, and its prescription compatibility is good.

**Applications:**

Widely used in cleansing cream, facial cleanser, cleansing gel, cleansing foam, shower gel, shampoo, baby cleansers, etc. Also suitable for cream, lotion, eye cream, sunscreen, masks and home care products such as liquid soap, detergent, laundry detergent, etc.

**Use Levels:**

Common personal care products, except makeup products, oral products and spray products: 0.25 - 2.0%.

Soap, dandruff shampoo and spray deodorant: 0.25 - 4.0%.

**Everguard™ PL (INCI Name: Polyepsilon-lysine) Natural Preservative!** **COSMOS**

**Everguard™ PL**, ε-polylysine, is a natural poly amino acid polymerized by 25 to 40 L-lysine. It's also known as “nutritional” biological preservatives because it biodegrades into essential amino acid L-lysine in the human body.

**Features:**

- Good water-soluble, easy to use
- Good thermal stability and antibacterial activities are kept of warming-up at 80 °C for 60 minutes and 120 °C for 20-minutes
- Wide pH application range
- Could be compounded with other preservatives.

**Applications:** Widely used in personal care and personal cleansing products, such as lotions, masks, sprays, moisturizers, essences, gels, sunscreen lotions, liquid foundations, sunblock lotions, milk cleansers, shampoos, hair conditioners, etc.

**Use Level:** 0.01-0.5%.

**Evermild™ EHG (INCI Name: Ethylhexylglycerin)**

**Evermild™ EHG** is a preservative booster. It can affect the interfacial tension at the cell membrane of microorganisms and disrupt the membrane integrity. It can improve the contact of other preservatives with cell membrane and allow them to penetrate into the cell.

**Evermild™ EHG** can synergistically combine with some traditional preservatives, such as phenoxyethanol, methylisothiazolinone and methylparaben, etc. Therefore, it can reduce required levels of traditional preservatives.

**Evermild™ EHG** is a conditioning agent. It can improve the moisturizing effect, reduce the tackiness of glycerol and leave skin a soft feeling. It can improve the absorption rate of emulsion.

**Evermild™ EHG** is a deodorant active. It can inhibit the growth and multiplication of odour-causing bacteria, while at the same time not significantly impacting natural skin flora.

**Applications:** Widely used in the emulsified system, including creams, lotions, sunscreen products, and hair conditioner, etc. It can also be applied in the surfactant system, such as shampoo and shower gel, etc.

**Use Level:** 0.3-1.0%.

### **Evermild™ CG (INCI Name: Caprylyl Glycol)**

**Evermild™ CG**, an alcohol derived from caprylic acid, is often used as part of a preservative blend in skincare. It works synergistically with other preservatives and is most frequently used partnered with other preservatives for its antibacterial properties in cosmetics.

In addition to its anti-bacterial characteristics, Caprylyl glycol is a humectant and skin-conditioning agent that lends moisturization, emollience and wetting properties to many cosmetic solutions.

Also, it contributes to cosmetics as a formulation stabilizer and viscosity regulator.

**Applications:**

Facial moisturizers, sunscreens, anti-aging treatments, lip glosses, mascaras, concealers, cleansers and foundations.

**Use Level:** 0.1-1%.

### **Evermild™ HG (INCI Name: 1,2-Hexanediol)**

**Evermild™ HG** is an effective antioxidant, anti-inflammatory agent and humectant.

It is frequently used in products that contain silicones because it is an excellent coupling agent. And it can be used at lower concentrations than many other coupling agents, therefore reducing its irritation likeliness.

Also, Evermild™ HG shows interesting properties to boost the antimicrobial efficacy of many common preservatives.

**Applications:**

Hair conditioners, Deodorants, Antiperspirants, Lipsticks, Moisturizers, Lip glosses, Anti-aging products, Sunscreens, Mascaras.

**Use Level:** 0.1-3%.

**Evermild™ PG (INCI Name: Pentylene Glycol)**

**Evermild™ PG**, a multi-functional cosmetic ingredient, could be used as an excellent skin moisturizer, emulsion stabilizer, solvent, and broad spectrum anti-microbial agent. It reduces emulsion particle size which helps achieve better stability and improves formulation aesthetics. Also, it improves water-resistance of sunscreen formulations. And it could work synergistically with preservatives to enhance the bioavailability of cosmetic actives.

**Applications:** facial moisturizers, sunscreens, anti-aging treatments, lip glosses, mascaras, concealers, cleansers and foundations.

**Use Level:** 1-5%.

**☆<sup>new</sup> EverGuard™ CY (INCI Name: Capryloyl Glycine)**

**EverGuard™ CY** is a multifunctional synthetic amino acid derivative. It can be used as a moisturizer to protect the skin surface from water loss, effectively inhibiting the activation of elastase to prevent the decomposition of elastin, thus reducing skin wrinkles. It can be used as a hair conditioner to inhibit the excess secretion of sebum and has significant effects on the prevention and treatment of acne. It can enhance the effectiveness of preservatives and has a strong inhibitory effect on *Staphylococcus aureus* and *Cutibacterium acnes*. Meanwhile, Capryloyl Glycine has good affinity on skin due to its inherent structure and it can efficiently transport the active matter in cosmetics which can improve the effect of other effective ingredients in products.

According to different product formulations, **EverGuard™ CY** can be used as a moisturizer, hair conditioner, surfactant and so on in cosmetics. It can also enhance the effectiveness of cosmetics thus reducing the use of preservatives.

**Applications:** It can be widely used in personal care products and personal cleaning products, including lotion, facial mask, spray, moisturizing lotion, essence, gel, sunscreen, liquid foundation, protection emulsion, facial cleanser, shampoo, hair conditioner.

**Use level:** 0.05-2.0 %.



## 3 Chelates

### **Evermild™ GLDA-30 (INCI Name: Tetrasodium Glutamate Diacetate)**



#### **COSMOS**

**Evermild™ GLDA-30** is aminopolycarboxylate-based chelating agent based on the food-approved natural amino acid salt, monosodium L-glutamate, which is produced by biochemical conversion of vegetable material (such as sugar beet waste). This results in a good biological breakdown as is confirmed by the Closed Bottle biodegradability test. **Evermild™ GLDA-30** is readily biodegradable, with a high solubility over a wide pH range. It does not sensitize human skin, demonstrates enhanced biocidal boosting power and improved biodegradability properties. Compared to phosphates and phosphonates, it is a far more effective chelating agent.

**Applications:** Widely used in personal care, cleaning and detergents, industrial cleaning and oil industry. It is China CFDA complaint.

**Use Level:** 0.4 % Max.

### **Evermild™ MGDA-30 (INCI Name: Trisodium Dicarboxymethyl Alaninate)**



**Evermild™ MGDA-30** is aminopolycarboxylate-based chelating agent which is used in countless applications to control metal ions in water-based systems and is highly effective for controlling water hardness ions as well as for cleaning surfaces, descaling boilers, processing textiles and preventing scale formation. **Evermild™ MGDA-30** is a strong chelate for hard water and transition metal ions. **Evermild™ MGDA-30** could be used as an ingredient in cleaning formulations to improve the descaling and cleaning capabilities. This includes whiteness and color care benefits in laundry and stain removal abilities in automatic dish washing. Since **Evermild™ MGDA-30** is also a strong chelating agent for heavy metal ions, such as Fe and Cu, it enhances product stability and prevents negative effects of transition metals.

**Applications:** Widely used in personal care, cleaning and detergents, industrial cleaning and oil industry.

**Use Level:** 0.4 % Max.

## 4 Sun Care Products

### **Olesun™ M (INCI Name: Methylene Bis-benzotriazolyl tetramethylbutylphenol)**

**Olesun™ M** is a high efficient organic broad-spectrum UVA/UVB absorber in ultra-fine nano-particle form. Due to its triple action — UV absorption, light scattering and light reflection by its ultra-fine nano-particle structure — it comprehensively covers UVA band. Furthermore, Olesun™ M has good light stability and water dispersible ability. And its synergies with other filters make it suitable for products with high PA value. It has physical sunscreen fresh & clean touch but with extremely broad long UVA coverage.

#### **Benefits:**

- Large UVA/UVB absorption range
- Water dispersion, easy to use and could increase the flexibility of the oil phase ingredients
- Strong light stability
- Good compatibility with other oil-soluble sunscreen ingredients
- Maintain high SPF value of other UVB absorbers!
- Approximate density with water, easy to suspend
- Will not affect the color of makeup

**Applications:** Personal sun care products.

**Use Level:** 5-20%.

### **EverMap™ 160K (INCI Name: Potassium Cetyl Phosphate) COSMOS**

**EverMap™ 160K** is a water-soluble long chain organic phosphate ester supplied as potassium salt with powder form. It is generally used as a co-emulsifier with low HLB nonionics, and is completely non-irritating to skin. EverMap™ 160K is easily dissolved into the hot water during emulsion processing. EverMap™ 160K, at low use concentrations, will enhance the stability of emulsions and help to thicken creams and lotions. It can replace TEA-stearate in most preparations.

**Applications:** EverMap™ 160K is ideally suited for use in personal care products, notably dermatological skin care products.

**Use Level:** 0.5-5%.

### **Evertouch™ LPS-100 (INCI Name: Isopropyl Lauroyl Sarcosinate)**

**Evertouch™ LPS-100** can readily dissolve poorly soluble materials, such as organic UV filters and active ingredients, which give formulators greater flexibility in developing new products. It has a characteristically smooth spreadability which is different from other emollients.

**Applications:** Sunscreen, liquid foundation, lipstick, moisturizing lotion, hair conditioner.

**Use Levels:** 2.0-10.0%.

### **EverExtract™ PO (INCI Name: Portulaca Oleracea Extract)**

Portulaca oleracea, mainly containing flavonoids, polysaccharides, alkaloids, triterpene alcohols, organic acids, catecholamines, and other nutrients such as vitamins and minerals, is a multi-functional ingredient which has anti-bacterial, anti-viral, anti-aging effects and could strengthen the immune system.

The norepinephrine and neurohormone which it contains could improve vasoconstrictor and anti-hypotension effect, reduce tissue bleeding. Also it could be topically used to treat burns, earache, insect bites, inflammation, skin pain, ulcers, skin itching, eczema and abscesses.

When used in personal care and cleaning products, it could reduce the cytotoxicity and irritation caused by surfactants.

Moreover, its reduction effect of phototoxicity could help to reduce the damage caused by UVA.

**Applications:**

Soothing, anti-pruritic products, anti-acne products, anti-dandruff products, after-sun repair products, anti-aging products, etc.

**Use Levels:** 1.0-5.0%.

## **5 Skin Brightening Agents**

### **Everwhite™ Vc-Et (INCI Name: 3-o-Ethyl Ascorbic Acid)**

Everwhite™ VC-Et is a stable derivative of ascorbic acid for skin lightening and anti-aging products. It can effectively inhibit the formation of melanin by restraining the  $\text{Cu}^{2+}$  activity of tyrosinase. It also can inhibit dermatitis and improve skin color and elasticity.

**Characteristic:**

- Excellent whitening effect — easily penetrates stratum corneum to reach the dermis and by the action of enzyme, it releases free Vitamin C
- Strong antioxidation, eliminates free radicals
- Excellent stability
- Soluble in both oil phase and water phase
- Anti-inflammation, inhibits the growth of bacteria
- Accelerates the synthesis of collagen, improves the luster of skin.

**Application:** Skin whitening and anti-aging products, such as gels, lotions and creams.

**Use Level:** 0.3-3.0 %.

**BioWhite™ VCG (INCI Name: Ascorbyl Glucoside)**

**BioWhite™ VCG** is a stable Vitamin C derivative and hydrolyzed by  $\alpha$ -glucosidase. BioWhite™ VCG has high water solubility, while retaining the natural biologic functions of Vitamin C. It helps inhibit discoloration and degradation and retains all the biological activity. BioWhite™ VCG is used not only for whitening, but also to brighten the skin, which plays a role in protecting the skin. It is also used as an anti-wrinkle agent in daily moisturizing and sunscreen products to prevent photo-aging.

**Applications:** Skin whitening and anti-aging products, such as gels, lotions and creams.

**Use Levels:** 0.2-5.0%.

**★new BioWhite™ VCT (INCI Name: Tetrahexyldecyl Ascorbate)**

**BioWhite™ VCT**, Tetrahexyldecyl ascorbate, is a skin lightener, which is derived from natural Vitamin C. **BioWhite™ VCT** can be converted to vitamin C, it can dramatically reduce the free radicals that result from UV irradiation of the skin, thereby significantly reducing cell damage.

Tetrahexyldecyl ascorbate is a stable oil-based vitamin C derivative, which can be easily used in the oil-based formulations. It has excellent penetration abilities, which helps to deliver its benefits to the skin. Tetrahexyldecyl ascorbate has a neutral pH so that it is non-irritating to the skin.

**Applications:** Widely used in lightening, anti-aging, and sunscreen products.

**Use Levels:** 0.2-3.0%.

**BioWhite™ ABT (INCI Name: Alpha-Arbutin)**

**BioWhite™ ABT** is a skin beautifying and whitening agent which can effectively and selectively inhibit tyrosinase activity, therefore eliminate the formation of melanin and hyperpigmentation without altering the normal growth of the epidermic cell or inhibiting the expressing of tyrosinase itself.

**Applications:** Skin whitening agent to all cosmetic and personal care products.

**Use Levels:** 0.5-5.0%.

**AgeGuard™ HP16 (INCI Name: Dipalmitoyl hydroxyproline) COSMOS**

**AgeGuard™ HP16** is a plant-derived lipid agent, consists of hydroxyproline (one of natural amino acids which is essential for skin collagen synthesis) and palmitic acid (a kind of natural fatty acid). It has naturally high affinity to skin proteins.

**Applications:** Anti-aging, anti-wrinkle & anti-stretch mark creams & lotions, firming / toning products, moisturizing and lip treatment formulations.

**Use Levels:** 0.1-1.0%.

**Kojic Acid SL™ (INCI Name: Kojic Acid)**

**Kojic Acid SL** is a tyrosinase inhibitor; and it chelates with metal ions. As a tyrosinase inhibitor, kojic acid was found to suppress isolated tyrosinase due to chelation of its copper. Kojic acid has been found useful as a melanin formation inhibitor, UV-induced hyperpigmentation preventive agent for the human skin.

Kojic Acid is the first well-received skin lightener after hydroquinone. It successfully fights age spots and pigmentation on face and body. It has increasingly been used as a skin-depigmenting agent in skin care products in Japan since 1988.

**Applications:** Skin Care Products.

**Use Levels:** 1.0-3.0%.

**KAD-15™ (INCI Name: Kojic Dipalmitate)**

**KAD-15™** has an excellent property of inhibiting the activity of tyrosinase present in the human skin to inhibit melanin formation. It is more efficacious than straight kojic acid. KAD-15 can produce excellent effects in even toning the skin, fighting age spots, pregnancy marks, freckles as well as general skin pigmentation disorders of face and body. Unlike kojic acid, which often causes product stability problems such as color changes, KAD-15 offers excellent product stability without any color instability problems.

**Features:**

- **Skin Lightening:** KAD-15 offers more efficacious skin lightening effects. Compared with kojic acid, KAD-15 markedly enhances the inhibitory effects on tyrosinase activity, which prohibits the formation of melanin.
- **Light and Heat Stability:** KAD-15 is light and heat stable, while kojic acid tends to oxidize over time.
- **pH Stability:** KAD-15 is stable within a wide pH range of 4-9, which provides flexibility to formulators.
- **Color Stability:** Unlike kojic acid, KAD-15 does not turn brown or yellow over time for two reasons. First, kojic acid is not stable to light and heat, and tends to oxidize, which results in color change (often yellow or brown). Second, kojic acid tends to chelate with metal ions (e.g. iron), which often results in color change. On the contrary, KAD-15 is stable to pH, light, heat and oxidation, and does not complex with metal ions, which leads to color instability.

**Applications:** Skin care, sun care, skin whitening/lightening, treatment for pigmentary disorders such as age spots etc.

**Use Levels:** 1.0-5.0 %.

## 6 Sensory Agents

### **KOKO™ ML-40 (INCI Name: Menthyl Lactate)** **COSMOS**

**KOKO™ ML-40** is a higher purity grade of Menthyl lactate. It provides extended, long lasting cooling effects for cosmetic and food applications. Comparatively low odor and irritation contributes to the cooling application.

**Applications:** Facial cleansers, body shampoo, shower gels, foam baths, toothpaste, shampoos and conditioners.

**Use Levels:** 0.1-2%

### **KOKO™ ML Plus II (INCI Name: Menthol and Menthyl Lactate)** **COSMOS**

**KOKO™ ML Plus II**, a highly effective cooling agent, comprised of natural menthol and menthyl lactate. It delivers quick cooling response, long lasting, fresh cooling sensation. The menthol composition also improves body odor, prevents sun damage and promotes wound healing for sun damage.

**Features:**

Easy to use: Liquid appearance makes it easy to formulation.

**Applications:** It can be used in ‘rinse off’ formulations such as body lotions, hair shampoos, facial gels etc; also in ‘leave on’ formulations such as sun care creams, skin care creams, body sprays, lip bars, deodorants, shave products, foot powders.

**Use Levels:** 0.1-4 %.

### **SenseHot™ (INCI Name: Vanillyl Butyl Ether)**

**SenseHot™** (Vanillyl butyl ether) is known as an active ingredient in personal care products to impart a warming sensation. Vanillyl butyl ether is also a flavoring agent used in food industry.

**Applications:** Facial mask, creams, lotions, food flavors, etc.

**Use Levels:** 0.05-1.0 %.

## 7 Other Mild Surfactants

### **Everfoam™ AMCO (INCI Name: PPG-2 Hydroxyethyl Cocamide)**

**Everfoam™ AMCO** is a mild nonionic surfactant with good foam-increasing ability and foam stability. It does not contain any monoethanolamine, diethanolamine, or other secondary amines which is a good alternative for Cocamide DEA/ Cocamide MEA. Besides, it could serve as thickeners and solubilizers for flavors, oils and actives.

**Applications:** Personal cleaning products, such as shower gels, shampoos, liquid hand soaps, facial cleansers, etc.; Household cleaning products, such as liquid detergents, detergents, liquid soaps, etc.

**Use level:** 0.5%-3.0%

**Evermild™ LG-30 (INCI Name: Sodium Lauroamphoacetate)**  **COSMOS**

**Evermild™ LG-30**, a super mild surfactant derived from amino acid, could reduce the irritancy of anionic surfactants on the skin and eyes without decreasing foaming effect. It is compatible with all types of surfactants with excellent thickening ability and viscosity stability. Also, it could promote the adsorption of active ingredients and is resistant to hard water, high concentrations of electrolytes.

**Applications:** Shower gels, facial cleansers, soap-based cleansers, mild shampoos, shaving cream, baby cleansers, etc.

**Use level:** 10.0%-25.0% (main surfactant); 1.0%-5.0% (co-surfactant)

**Evermild™ SB230 (INCI Name: Lauryl Hydroxysultaine)**

**Evermild™ SB230**, a betaine amphoteric surfactant with better foam-increasing ability and foam stability than others, could reduce the irritancy of anionic surfactants on the skin and eyes without reducing foaming effect. Excellent thickening ability and viscosity stability, good solubility in water, better resistance to hard water and antistatic ability, makes it an good alternative for cocamidopropyl betaine.

**Applications:** Shower gels, facial cleansers, soap-based cleansers, mild shampoos, shaving creams, baby cleansers, etc.

**Use level:** 1.0%-10.0% (main surfactant)

**Evermild™ SB450 (INCI Name: Lauramidopropyl Hydroxysultaine)**

**Evermild™ SB450** is an amphoteric surfactant, having good compatibility with anionic, cationic, nonionic and other amphoteric surfactants. When applied in shampoo, it is matched with other active matter, and brings obvious conditioning and thickening effects. Its hard water tolerance permits equally good foaming in hard and soft water.

Besides, it is stable in high-electrolyte solutions / wide pH range and will help solubilize other surfactants into these systems.

**Applications:** shower gels, shampoos and bath products.

**Use level:** 1.0%-10.0%.

★**new** **OleEster™ SLL (INCI Name: Sodium Lauroyl Lactylate)**

**OleEster™ SLL** is a naturally derived ingredient, based on lauric acid and lactic acid. It can be used in cosmetics and skincare products as a surfactant, emulsifier, and moisturizer. **OleEster™ SLL** is a gentle cleansing ingredient that will not irritate or dry out the skin. It is also used to enhance the delivery of other ingredients into the skin and extend the scent of products. It can be found in products such as facial cleansers, shaving creams, baby products, and more.

**Benefits:**

- Mild surfactant which leaves skin an extremely pleasant silky feel
- Excellent moisturizing properties
- Provides some antimicrobial effects on the skin
- The EWG (Environmental Working Group) rates it as a very low-risk ingredient
- Excellent biodegradability

**Applications:** Used in personal care products.

**Use level:** 0.5-10.0 %.

## 8 Skin and Hair Conditioners

★**new** **EverGuard™ CY (INCI Name: Capryloyl Glycine)**

**EverGuard™ CY** is a multifunctional synthetic amino acid derivative. It can be used as a moisturizer to protect the skin surface from water loss, effectively inhibiting the activation of elastase to prevent the decomposition of elastin, thus reducing skin wrinkles. It can be used as a hair conditioner to inhibit the excess secretion of sebum and has significant effects on the prevention and treatment of acne. It can enhance the effectiveness of preservatives and has a strong inhibitory effect on *Staphylococcus aureus* and *Cutibacterium acnes*. Meanwhile, Capryloyl Glycine has good affinity on skin due to its inherent structure and it can efficiently transport the active matter in cosmetics which can improve the effect of other effective ingredients in products.

According to different product formulations, **EverGuard™ CY** can be used as a moisturizer, hair conditioner, surfactant and so on in cosmetics. It can also enhance the effectiveness of cosmetics thus reducing the use of preservatives.

**Applications:** It can be widely used in personal care products and personal cleaning products, including lotion, facial mask, spray, moisturizing lotion, essence, gel, sunscreen, liquid foundation, protection emulsion, facial cleanser, shampoo, hair conditioner.

**Use level:** 0.05-2.0 %.



**EverLipid™ EFA (INCI Name: Linoleamidopropyl PG-Dimonium Chloride Phosphate)**

**EverLipid™ EFA** is composed of long chains of predominantly diester phosphatides. As an organic phospholipids biomimetical complex, **EverLipid™ EFA** is made from pure natural safflower oil designed to provide topical benefits that are not possible to achieve using natural phospholipids such as lecithin. **EverLipid™** offers a combination of performance properties for personal and health care applications with excellent substantivity and effective conditioning as well as mildness and non-greasy emolliency.

**Features:**

- Substantive to hair and skin;
- Potential topical skin delivery of linoleic acid
- Non-greasy emollient
- Extremely mild
- Makes clear formulation
- Outstanding hair conditioning

**Applications:** Hair and skin care products

**Use level:** 0.5%-5%

**Everquat™ BTMS-50 / BTMS-25 (INCI Name: Cetearyl Alcohol and Behentrimonium Methosulfate)**

**Everquat™ BTMS-50** is an efficient cationic conditioner with emulsifying properties in hair care and skin care products.

**Benefits:**

- Vegetable based, eco-friendly, and extremely mild.
- Substantive to skin and hair.
- Easy-to-use Pastilles form.
- Superior detangling and wet combing ability.
- Provide hair soft and silky after-feel.

**Applications:** Leave-on and rinse-off hair conditioners, detanglers, hair dyes, deep conditioning hair relaxers/ straighteners, personal care creams and lotions, etc.

**Use level:** 1.0-5.0 %.

**Eversmooth™ LC-HC01 (INCI Name: Behenamidopropyl Dimethylamine and Stearamidopropyl Dimethylamine and Cetearyl Alcohol)**

**Eversmooth™ LC-HC01** is an excellent hair conditioning agent with Liquid crystal structure. Then high cost-effective hair care end-product could be easily obtained with high conditioning efficiency.

Compared with other conditioning agents, this product performs better conditioning function, effectively improves combing effect and hair softness, reduces hair knotting and provides better sensory benefits.

Also, enhance the color intensity and color uniformity and repair the damage caused by hair dye.

**Applications:** Hair conditioners, hair masks, treatments, hair dyes/colors, etc.

Shampoo for colored hair, color protection shampoo, hair coloring shampoo, etc.

**Usage Level:** Conditioners: 2.0-14.0 %; Shampoos: 1.0-4.0 %.

### **Eversmooth™ NC-30 (Chemical Name: Glycine Max Oil with Stabilizers, Arginine)**

**Eversmooth™ NC-30** is a natural innovative conditioning agent, it could deliver excellent dry combing performance even in silicone free formulation. It could be used in transparent formulation with both amino acid surfactant system and sulfate surfactant system. It is the best alternative to silicone in shampoo formula.

#### **Benefits:**

- Excellent dry combing performance without weighing down hair
- Outstanding wet combing performance without negative influence to shampoo foam property
- No influence to shampoo viscosity
- Can be used in transparent formulation
- Stable at high & low temperature (passed -18°C frozen & thaw challenge test)
- Excellent biodegradability
- Best alternative to silicone emulsion

**Usage Level:** Conditioners: 0.5-2.0 %; Shampoos: 0.1-1.5 %.

## **9 Moisturizers, Anti-aging & Anti-itch Agents**

### **★new BioEase™ MY-75 (N) (INCI Name: Hydrolyzed Corn Starch) COSMOS**

**BioEase™ MY-75 (N)** is enzymatic hydrolysate of corn starch and mainly contains oligosaccharides such as maltotetraose.

For people with sensitive skin, SP is the skin itch related factor. **BioEase™ MY-75 (N)** can effectively relieve sensitive skin itch. It is also effective as a skin care for the decreased barrier function caused by chronic itch.

**BioEase™ MY-75 (N)** is safe since it is a mixture of oligosaccharides obtained from corn starch through biological enzymatic hydrolysis. It can be used in shampoo and

various skin care products because of its effects of anti-allergic, anti-inflammatory, foam-stabilizing and thickening. **BioEase™ MY-75 (N)** also can be used with other moisturizers to enhance the moisturizing property of the formula because of its good moisturizing and film-forming properties.

**Applications:** Moisturizer, moisturizing body wash, antipruritic shampoo, etc.

**Use level:** Leave-on products: 0.1-5.0 %; Rinse-off products: 1.0-10.0 %.

★**new BioEase™ MY-100 (INCI Name: Hydrolyzed Corn Starch)**

**BioEase™ MY-100** is the powder form of enzymatic hydrolysate of corn starch and mainly contains oligosaccharides such as maltotetraose.

For people with sensitive skin, SP is the skin itch related factor. **BioEase™ MY-100** can effectively relieve sensitive skin itch. It is also effective as a skin care for the decreased barrier function caused by chronic itch.

**BioEase™ MY-100** is safe since it is a mixture of oligosaccharides obtained from corn starch through biological enzymatic hydrolysis. It can be used in shampoo and various skin care products because of its effects of anti-allergic, anti-inflammatory, foam-stabilizing and thickening. **BioEase™ MY-100** also can be used with other moisturizers to enhance the moisturizing property of the formula because of its good moisturizing and film-forming properties.

**Applications:** Moisturizer, moisturizing body wash, antipruritic shampoo, etc.

**Use level:** Leave-on products: 0.1-5.0 %; Rinse-off products: 1.0-10.0 %.

★**new Evermoist™ AGG-50G (INCI Name: Glycerol Glucoside)**

**Evermoist™ AGG-50G** is an aqueous solution consisting of 2-O- $\alpha$ -D-glucosylglycerol (AGG). AGG is characterized by high thermo-stability, low Maillard reactivity, and high water-holding capacity. AGG has been found in some traditional Japanese foods such as sake, miso and mirin, brewed by using koji. **Evermoist™ AGG-50G** functions as an osmolyte to protect skin cells. Its special features include a) upregulating Aquaporin 3 and moisturizing; b) enhancing skin barrier function; c) increasing anti-oxidative ability by promoting SOD; d) increasing collagen synthesis by stimulating growth factor IGF-1; e) reducing uncomfortable skin symptoms by stimulating FGF-7 and TGF- $\beta$ 1.

**Applications:** Skin care, Sun care, Color cosmetics, Suitable for extremely sensitive and allergic skin.

**Use level:** 0.5-2.0 %.

★**new** **AgeGuard™ AST-5 (INCI Name: Astaxanthin)**

Astaxanthin is a fat-soluble, xanthophyll carotenoid, a secondary metabolite naturally synthesized by a number of bacteria, microalgae, and yeasts. Astaxanthin is an antioxidant that protects your cells from oxidation so your cells stay younger and free from damage. According to the scientific literature, using astaxanthin can result in a reduction of age spots on the skin. In studies, scientists found that by taking the astaxanthin, the skin improved with respect to wrinkles, elasticity and texture.

Astaxanthin is a potent antioxidant, with studies showing it provides significantly greater antioxidant protection than the carotenoids beta carotene, lycopene, and lutein as well as alpha-tocopherol, and thus it is considered one of the best agents for protecting cellular membranes. Both in vivo and in vitro studies have demonstrated that astaxanthin may play a promising functional role to treat and prevent skin aging.

**Applications:** Astaxanthin is widely used in various types of cosmetics such as creams, emulsions, lip balms, and skin care products.

**Use level:** 0.1-0.5 %.

**Evermild™ PGA (INCI Name: Polyglutamic Acid)**  **COSMOS**

**Evermild™ PGA**, a long-lasting moisturizing agent, forms a smooth, soft flexible film on the skin, improves skin feel and promotes against environmental aggression. And it promotes the production of the Natural Moisturizing Factor with long term use; increases skin elasticity for heightened aesthetics; inhibits the production of melanin; enhances the hair's tensile strength; minimizes damage caused by bleaching agents; reduces the tackiness of hyaluronic acid (sodium hyaluronate) in formulations.

**Applications:** Lotion, facial mask, spray, moisturizing lotion, essence, gel, sunscreen, liquid foundation, protection emulsion, hair conditioner.

**Use level:** 0.01-1.0 %.

★**new** **BioYoung™ FGL-G (INCI Name: Biosaccharide Gum-1)**

Biosaccharide Gum-1 composed of galacturonic acid, L-fucose and D-galactose. Due to the structure of macromolecule amylose, it enables to form a film on the skin surface but also on hair and, also to capture water molecules, it possesses immediate and residual moisturizing. Biosaccharide Gum-1 is suitable for essence, lotion, cream, eye cream, mask, body lotion, shampoo, conditioner and body gel.

**BioYoung™ FGL-G** works by binding water to the epidermis and creating a moisture-binding film on the skin that gives the skin a smooth soft feel. In addition to providing long lasting moisturization, it also functions as an anti-irritant. It has Soothing, Moisturizing, Anti-aging, and Restructuring properties.

**Applications:** Easy to formulate, suitable for all types of formulas and applications, comfort and softness booster.

**Use level:** 1.0-20.0 %.

★**new BioYoung™ BFL-G (INCI Name: Bifida Ferment Lysate)**

Bifida Ferment Lysate is a bifidobacterium extract, containing metabolites, cytoplasmic components, cell wall components and polysaccharide complex, with good water solubility. Biotechnological lysates are safe and non-irritating to the skin. The expression of inflammatory cytokines up-regulated during inflammatory reaction by **BioYoung™ BFL-G** shows significant effects making the skin calm, recovering skin's vitality, and acts as a mild anti-aging ingredient. **BioYoung™ BFL-G** has a regulating function on the immune system in formulation, activating skin cells and delaying skin aging, as well as increasing its regenerative capacity. It also has a double calming and anti-inflammatory action.

**Applications:** Used in personal care products, such as cleanser, moisturizer, lotion, cream, facial mask, essence, hair conditioner, body lotion, etc.

**Use level:** 0.5-10.0 %.

★**new BioYoung™ LFL-G (INCI Name: Lactobacillus Ferment Lysate)**

Postbiotic lysates of Lactobacillus Ferment Lysate that mainly contain bacteria metabolism products, cytoplasm fractions, and cell wall components. **BioYoung™ LFL-G** balances and protects the skin microbiota and supports it in dealing with external or internal stress. **BioYoung™ LFL-G** not only shows capability of improving collagen synthesis, but also down-regulates skin inflammation and immunological reactions by inhibiting expression of cytokines which release from keratinocytes. **BioYoung™ LFL-G** also acts as a skin brightening agent with tyrosinase inhibition and antioxidant effect. The products mainly involve facial mask, cream, essence, eye cream etc. **BioYoung™ LFL-G** also improves the condition of the scalp and reduces attributes related to dryness of the scalp.

**Applications:** Used in personal care products, such as cleanser, moisturizer, lotion, cream, facial mask, essence, hair conditioner, body lotion, etc. Avoid using in transparent formula systems.

**Use level:** 2.0-10.0 %.

**★new BioEssence™ GSH (INCI Name: Glutathione)**

Glutathione is a tripeptide, also a tiny protein which is composed of three amino acids: cysteine, glycine, and glutamic acid (or glutamate). Glutathione is an antioxidant produced in cells.

Glutathione is largely known as antioxidants which are quite popular for their ability to minimize oxidative stress and the downstream negative effects thought to be associated with oxidative stress. Glutathione is the most significant antioxidant that can help prevent free radical damage to the skin.

**Applications:** Used in personal care products.

**Use level:** 2.0-10.0 %.

**OleEster™ ISL (INCI Name: Sodium Isostearyl Lactylate) COSMOS**

**OleEster™ ISL** exhibits excellent emulsifying efficiency in surfactants system and provides stable emulsions. It also exhibits good conditioning and moisturizing effects for skin and hair care products.

**Applications:** It could be widely used in various emulsifying systems.

**Use Levels:** 1.0-5.0 %.

**OleEster™ ISL85 (INCI Name: Sodium Isostearyl Lactylate)**

**OleEster™ ISL85** exhibits excellent emulsifying efficiency in surfactants system and provides stable emulsions. It also exhibits good conditioning and moisturizing effects for skin and hair care products.

**Applications:** It could be widely used in various emulsifying systems.

**Use Levels:** 1.0-5.0 %.

**Evertouch™ LPS-100 (INCI Name: Isopropyl Lauroyl Sarcosinate)**

**Evertouch™ LPS-100** can readily dissolve poorly soluble materials, such as organic UV filters and active ingredients, which give formulators greater flexibility in developing new products. It has a characteristically smooth spreadability which is different from other emollients.

**Applications:** Sunscreen, liquid foundation, lipstick, moisturizing lotion, hair conditioner.

**Use Level:** 2.0-10.0 %.

## 10 Natural Products

### Amino Acid Series

#### Evermild™ L-ARG (INCI Name: Arginine) COSMOS

Everneutral™ L-ARG is one kind of amino acid that could be produced by the human body. It is also one kind of most important amino acids to our life. In cosmetic application, it can be used as a natural neutralizer and the best alternative of triethanolamine and aminomethylpropanediol which are not so welcomed because of their carcinogenic potential.

#### Benefits:

- Using arginine as neutralizer can avoid the risk of nitroso exceeding caused by TEA.
- L-Arginine has moisture retention and helps skin retain water for a long time.
- L-Arginine has the effect of softening the stratum corneum.
- L-Arginine can enhance the immunity of the skin.
- L-Arginine can improve the microcirculation around the wound, promote the formation of collagen tissue and accelerate wound healing.
- L-Arginine has antioxidant effects.
- No residue, no hormones, no heavy metals, comply with the regulations on cosmetic raw materials.

**Applications:** As a natural neutralizer, it can be used instead of triethanolamine, aminomethylpropanediol, KOH and NaOH to adjust the pH of system.

**Use Level:** 0.1 - 1.0 %.

#### AgeGuard™ LP (INCI Name: Proline)

AgeGuard™ LP is an amino acid and makes up about 15% collagen in the body. It is a nutritive agent to skin and hair. L-Proline is used in anti-aging and other cosmetic formulas according to its ability to strengthen and renew aging skin cells. L-Proline is able to break down protein to help create healthy cells and connective tissues. While used in suntan products, L-Proline can shorten the cycle of cuticle regeneration, and promote firmer, glowing skin and reduce sagging and wrinkles of skin due to sun exposure. It will reduce wrinkles production when combined with other amino acids, such as glycine and leucine.

In cosmetics and skin care products, L-Proline is primarily used as a hair and skin conditioning agent. It is relatively safe, and pregnant women can rest assured to use. There is no reports saying L-Proline has side effects to cause acne.

**Applications:** Anti-aging and skin tightening products.

**Use Level:** 0.1 - 1.0 %.

## **Pearl Series**

Sino Lion offers a series of pearl products that include PPP-100™, Pearl Plus SL™, and Pearl SL™. PPP-100 is pure pearl powder in water dispersible form, Pearl Plus SL is pure pearl powder in water soluble form while Pearl SL is hydrolyzed pearl in liquid form.

Since the ancient times, pearl powder has been highly regarded in China as a beneficial health and remedy ingredient that is widely used in expensive Chinese medicines and health and nutritional preparations. It is believed that the utilization of the pearl can nourish the skin, strengthen the body; and slow down the aging process. More recently, scientists have extensively analyzed pearl powder and found that the most beneficial ingredients in pearl powder are the 14-18 amino acids (including the eight that can not be synthesized by the human body), and many minerals including bio-active calcium, magnesium and trace levels of iron, copper, zinc, etc.).

Pearl can be used as an additive to cosmetics and personal care products. When used in cosmetics and personal care products, they work synergistically to enhance the action of any skin moisturizer, skin lightener/toner, skin repair and UV-protection products. Once absorbed into the skin, it promotes the growth of new skin cells and replenishes the cells of the skin's surface giving a smooth, fine, elastic and naturally beautiful skin. Other functions of pearl include promoting the activities of SOD (Super Oxide Dismutase) and preventing melanin formation. The functionalities of skin whitening and prevention of skin aging are achieved because the SOD enhancement has the function of clearing the skin of cellulite-like toxins. It is also suitable for use in creams and lotions designed to heal minor slow healing wounds, treatment of boils, pigmentation disorders, blemishes etc. It also acts as an exfoliator with functions similar to alpha- and beta-hydroxy acids without any irritation and harshness. When used in color cosmetics, it moisturizes and neutralizes UV-damage while imparting an incredible skin after-feel.

Pearl has the advantages of complete safety, no record of animal testing and a long history of use in traditional medicines and cosmetics, attributes for skin lightening; UV-protection, reduction in trans-epidermal water loss (TEWL), all these have stimulated much interests in this natural product. The possibilities to incorporate this natural ingredient into a cosmetic formulation is endless, which include but not limited to creams, lotions, milks, facial cleansers, facial masks, vanishing creams, massage creams, lipsticks, facial powder, eye shadow and other high-end cosmetics.

### **PPP-100™ (INCI Name: Pearl Powder)**

PPP-100™ is made by refining high quality freshwater pearls using a proprietary process. PPP-100 is non-soluble in water.

**Applications:** Cosmetics and Personal Care Products.



**Use Levels:** 1-10%

**Pearl Plus SL™ (INCI Name: Pearl Powder)**

**Pearl Plus SL™** is water soluble version of PPP-100. The main attributes are similar to PPP-100.

**Applications:** Cosmetics and Personal Care Products.

**Use Levels:** 1-10%

**Pearl SL™ (INCI Name: Hydrolyzed Pearl)**

**Pearl SL™** is made from refined powder of high quality freshwater pearls, by hydrolyzing pure pearl through proprietary processes to remove most of the calcium carbonate while extracting the active ingredients of 14-18 amino acids and the minerals.

**Applications:** All cosmetic and personal care products

**Use Levels:** 2-5%

**EverExtract™ PO (INCI Name: Portulaca Oleracea Extract)**

Portulaca Oleracea, mainly containing flavonoids, polysaccharides, alkaloids, triterpene alcohols, organic acids, catecholamines, and other nutrients such as vitamins and minerals, is a multi-functional ingredient which has anti-bacterial, anti-viral, anti-aging effects and could strengthen the immune system.

The norepinephrine and neurohormone which it contains could improve vasoconstrictor and anti-hypotension effect, reduce tissue bleeding. Also it could be topically used to treat burns, earache, insect bites, inflammation, skin pain, ulcers, skin itching, eczema and abscesses.

When used in personal care and cleaning products, it could reduce the cytotoxicity and irritation caused by surfactants.

Moreover, its reduction effect of phototoxicity could help to reduce the damage caused by UVA.

**Applications:**

Soothing, anti-pruritic products, anti-acne products, anti-dandruff products, after-sun repair products, anti-aging products, etc.

**Use Levels:** 1.0-5.0 %.

**For samples, more detailed literature, and information on other products that are not listed here, please contact us at:**



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Notes: Some products may be available but not included in this catalogue, while others in this catalogue may be subject to minimum order quantities. Please contact our sales representative regarding the details of product availability.