



# Seebio Raw Material Catalog for Cosmetics



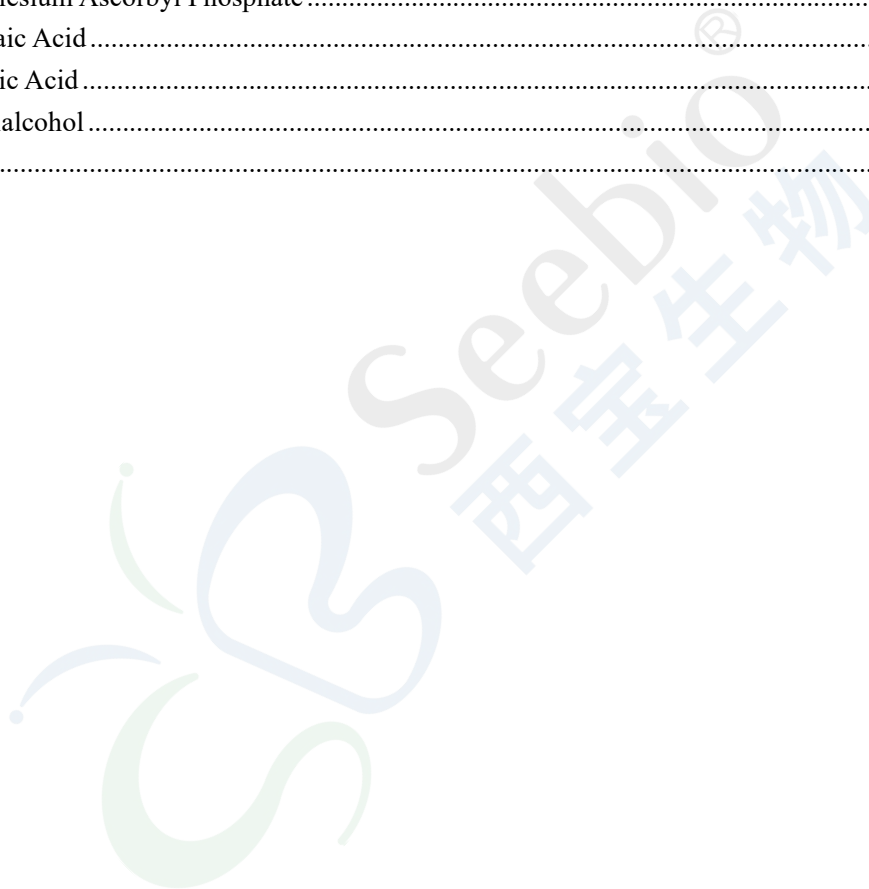
Seebio Biotech (Shanghai) Co., Ltd.

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## Amino Acid-based Surfactants

### Disodium Cocoyl Glutamate 30%

It is a 30% liquid 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 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%.

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### Disodium Cocoyl Glutamate 40%

It is a 40% liquid 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 vs Eversoft®; UCS-30S considered about logistic effectiveness.

#### 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: 15.0-38.0%; Co-surfactant: 3.5-12.0%.

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## Disodium Cocoyl Glutamate 50%

It is a 50% liquid 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 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%.

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## Disodium Cocoyl Glutamate powder (no higher than 16% salt)

It is the powder 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 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%.

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## Disodium Cocoyl Glutamate (no higher than 3% salt)

It is the powder 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 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%.

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## Disodium Cocoyl Glutamate (no higher than 0.4% salt)

It is the powder 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 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%.

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## Sodium Cocoyl Glutamate Surfactant Blend

It is a mild, cost-effective, high-performing, ease 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%.

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## Mild Surfactant

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%.

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## Sodium Lauroyl Glutamate 30%

It is a 30% liquid 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%.

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## Sodium Lauroyl Glutamate

It is the powder which has about 100% solid 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: 8.0-15.0%; Co-surfactant: 0.5-6.0%.

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## Sodium Myristoyl Glutamate 30%

It is a 30% liquid 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 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%.

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## Potassium Myristoyl Glutamate 40%

It is a 40% liquid 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 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%..

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## Potassium Cocoyl Glutamate 40%

It is a 40% liquid 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 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%.

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## Disodium Oleoyl Glutamate 30%

It is a 30% liquid 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 hydrophobic property, 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 feeling;
- 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%.

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## Sodium Cocoyl Glycinate 30%

It is a 30% liquid 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%.

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## Sodium Cocoyl Glycinate with low salt

It is a 30% liquid 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%.

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## Sodium Cocoyl Glycinate (no higher than 20% salt)

It is the powder 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%.

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## Sodium Cocoyl Glycinate (no higher than 7% salt)

It is the powder 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%.

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## Potassium Cocoyl Glycinate (with high salt)

It is a 30% liquid of Potassium Cocoyl Glycinate with high 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 complex 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 and 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%.

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## Potassium Cocoyl Glycinate( with low salt)

It is a 30% liquid of Potassium Cocoyl Glycinate with low 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 complex with fatty acids, it 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 and 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%.

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## Potassium Cocoyl Glycinate (no higher than 20% salt)

It is a powder 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 complex with fatty acids, it 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 resistance.
- 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%.

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## Potassium Cocoyl Glycinate (no higher than 3% salt)

It is a powder of Potassium Cocoyl Glycinate with no higher than 3% 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 complex with fatty acids, it 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 resistance.
- 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%.

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## Sodium Lauroyl Glycinate

It is a 30% liquid of Sodium Lauroyl Glycinate, which has about 30% solid content and 25% 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%.

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## Sodium Lauroyl Sarcosinate

It is a 30% liquid 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%.

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## Sodium Cocoyl Alaninate, minimal salt

It is a 30% liquid of Sodium Cocoyl Alaninate. It has about 30% solid content and minimal Sodium chloride. It is a gentle surfactant synthesized from Lalanine 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%.

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## Sodium Cocoyl Alaninate, ~5% salt

It is a 30% liquid of Sodium Cocoyl Alaninate. It has about 30% solid content and 5% sodium chloride. It is a gentle surfactant synthesized from Lalanine 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%.

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## Eversoft SuperMix A200 (INCI Name: Disodium Cocoyl Glutamate,Glycerin, Sodium Cocoyl glycinate, Sodium Lauroamphoacetate,Tetrasodium Glutamate Diacetate)

It 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, It is a slight yellowish to amber, clear to slight turbid, viscous liquid. It is very convenient and easy to convert the concentrate into foaming hand wash. Diluting the concentrate 5x times ( A200 : H2O = 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.

## Green Preservatives

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

#### Properties

It 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), moulds and yeasts. Additionally, Ethyl lauroyl arginate HCl as food additive, offers a remarkable degree of safety.

#### Applications

It 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%.

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

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

#### Properties

Mild cationic surfactant, natural sources, safety and low stimulation, highly biodegradable, environmental 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 be added to formulations easily, 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%.

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## Polylysine-Natural Preservative

Polylysine is a natural polyamino acid polymerized by 25 to 40 Llysine. 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 Levels

0.01-0.5%.

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## Ethylhexylglycerin

It 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 penetrate into the cell.

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

It 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.

It 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 Levels

0.3-1.0%.

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## Caprylyl Glycol

It is an alcohol derived from caprylic acid and 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 skinconditioning 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 Levels

0.1-1%.

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## 1,2-Hexanediol

It 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 likelihood.

Also, it 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 Levels

0.1-3%.

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## Pentylene Glycol

It is a multi-functional cosmetic ingredient and could be used as 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 Levels

1-5%.

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## Hydroxyacetophenone

It is a broad-spectrum preservative, which can against bacteria (such as Gram positive and Gram negative), moulds and yeasts.

### Features

🌸 Multifunctional ingredients : preservative, anti-oxidation, emulsion stabilizer and other

characteristics;

- Suitable for the preservative systems of glycol, phenoxyethanol, and ethylhexylglycerin, enhance the preservative performance;
- Not containing paraben and no formaldehyde release;
- Solubility: about 1% in water, 10% in ethanol; 5% in glycerol; 30% max. in glycols, 2% in caprylic/capric triglyceride, insoluble in mineral oil.
- Laws and regulations: Conform to the cosmetic laws and regulations in China, USA,
- EU, Japan and other places;
- Good safety: Non-irritating with 5% use level in patch test (48h).

### Applications

Washing products: Facial cleanser, body wash, shampoo, etc.

Personal care: Cream, lotion, facial mask, sunscreen, wipes, etc.

### Use Levels

0.1-1.0%.

## Chelates & Neutralizer

### Tetrasodium Glutamate Diacetate

It 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.

It 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 Levels

0.4 % Max.

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### Tetrasodium Glutamate Diacetate

It is Tetrasodium Glutamate Diacetate with a concentration about 47%, it 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.

It 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 Levels

0.25 % Max.

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## Trisodium Dicarboxymethyl Alaninate

It is aminopolycarboxylate-based chelating agent which is used in countless applications to control metal ions in water-based systems, and is of highly effective for controlling water hardness ions as well as for cleaning surfaces, descaling boilers, processing textiles and preventing scale formation.

It is a strong chelate for hard water and transition metal ions. It could be used as an ingredient in cleaning formulations improves the descaling and cleaning capabilities. This includes whiteness and color care benefits in laundry and stain removal abilities in automatic dish washing. Since it 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 Levels

0.4 % Max.

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## Arginine

It is one kind of amino acid could be produced by human body. It is also one kind of most important amino acids to our life. In cosmetic application, it can be used as an organic 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 an organic neutralizer, it can be used instead of triethanolamine, aminomethylpropanediol, KOH and NaOH to adjust the pH of system.

### Use Levels

0.1-1.0 %.

## Sun Care Products

### Methylene Bis-benzotriazolyl tetramethylbutylphenol

It is a high efficient organic broad-spectrum UVA/UVB absorber in ultrafine 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, it has good light stability and water dispersibility.

And its synergies with other filters makes it suitable for products with high PA value.

#### 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 Levels

5-20%.

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### Potassium Cetyl Phosphate

It 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. It is easily dissolved into the hot water during emulsion processing. Potassium Cetyl Phosphate, 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

It is ideally suited for use in personal care products, notably dermatological skin care products.

#### Use Levels

0.5-5%.

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## Isopropyl Lauroyl Sarcosinate

It has the ability to 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%.

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## 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%.

## Polymers

### SuperGel CE/SK/SKII-Carbomer, 980/940 type

(Benzene-free)

SuperGel is a series of rheology modifiers based on Carbomer technology. It can deliver exceptional thickening and suspending power in a wide variety of personal care products. Used at low concentrations, SuperGel™ offer a wide range of flow and rheological properties.

#### Applications

Shampoos, hair styling gels, moisturizing gels, shower gels, body lotions, creams, etc.

#### Use Levels

0.1-3.0%.

## Skin Lightening Agents

### 3-O-Ethyl Ascorbic Acid

It is a stable derivative of ascorbic acid for skin lightening and antiaging 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 the skin color and elasticity.

#### Characteristic

- Excellent whitening effect &mdash; 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 Levels

0.2-5.0%.

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### Ascorbyl Glucoside

It is a stable Vitamin C derivative and hydrolyzed by  $\alpha$ -glucosidase.

It 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.

It is used not only for whitening, but also to brighten the skin, which plays a role in protecting the skin in sunscreen products. It is also used as a 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%.

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## Alpha-Arbutin

It 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%.

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## Dipalmitoyl hydroxyproline

It 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 acids). 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%.

## Sensory Agents

### Menthyl Lactate

It 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 the cooling application.

#### Applications

facial cleansers, body shampoo, shower gels, foam baths, toothpaste,shampoos and conditioners.

#### Use Levels

0.1-2%.

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

KOKOTM ML Plus II, a highly effective cooling agent, comprised by 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%.

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### Blue Cooling Beads

It is blue cooling beads in which cooling agent is tightly wrapped. It possesses strong, long-lasting cool feeling due to the patented cooling agent.

### Benefits

- High Firmness : Will not be damaged under shear during the manufacture of toothpaste;
- Good water absorption :Will be soft after absorbing water, then will be crushed easily under lower extrusion pressure and release the cooling agent promptly;
- No residues for the new production process;
- Bright colors, stability, security - Made with food grade pigments; Stable over a wide range of pH values and temperatures;
- Uniform particle size - Form uniform finished-products with beautiful appearance.

### Applications

Directly add into the formulations at the end of the process, then mix until uniform.

Could be applied in toothpastes, shower gels, facial cleansers, shampoos.

### Use Levels

0.5%-5%.

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## Vanillyl Butyl Ether

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%.

## Other Mild Surfactants

### PPG-2 Hydroxyethyl Cocamide

It is a mild nonionic surfactant with good foam-increasing ability and foam stability. It does not contain any of 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 Levels

0.5%-3.0%.

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### Sodium Lauroamphoacetate

It is 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 Levels

10.0%-25.0% (main surfactant); 1.0%-5.0% (co-surfactant).

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### Lauryl Hydroxysultaine

It is 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 Levels

1.0%-10.0% (main surfactant).

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## Lauramidopropyl Hydroxysultaine

It 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 obviously 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 Levels

1.0%-10.0%.

## Skin and Hair Conditioners

### Linoleamidopropyl PG-Dimonium Chloride Phosphate)

It 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 application 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 Levels

0.5%-5%.

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### Cetaryl Alcohol and Behentrimonium Methosulfate)

It is an efficient cationic conditioners 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 Levels

1.0%-5.0%.

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

It 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 agent, 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 Levels

Conditioners: 2.0%-14.0%; Shampoos: 1.0%-4.0%

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## Glycine Max Oil with Stabilizers, Arginine)

It is 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 better 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;

- Better alternative to silicone emulsion.

### Usage Level

Conditioners: 0.5-2.0 %; Shampoos: 0.1-1.5 %.



## Emollients and Moisturizers

### Glyceryl Glucoside

It is aqueous solution consisted of 2-O- $\alpha$ -D-glucosylglycerol (AGG) which was found to have the following characteristics: high thermo-stability, low Maillard reactivity, high water-holding capacity. It has been found that AGG is contained in such traditional Japanese foods brewed by using koji as sake, miso and mirin. AGG can increase the production of IGF-I in the skin through sensory neuron stimulation, thereby increasing skin elasticity.

#### Formulation guidelines

- Excellent solubility in water;
- Recommended use level: 0.5-2.0%;
- Good compatibility with other cosmetic active substances;
- Can be added directly to aqueous phase prior to emulsification.

#### Applications

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

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### Polyglutamic Acid

It is a long-lasting moisturizing agent, forms a smooth, soft flexible film on the skin, improves skin feel and promotes against the 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%-0.30%.

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### Sodium Isostearyl Lactylate

It 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 level

1-5%.

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## Isopropyl Lauroyl Sarcosinate

It has the ability to 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 %.

## Natural Products

### Pearl Series

Seebio offers a series of pearl products.

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.

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### Pearl Powder (non-soluble in water)

It is made by refining high quality fresh water pearl using a proprietary process. It is non-soluble in water.

### Applications

Cosmetics and Personal Care Products.

### Use level

1-10%.

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## Pearl Powder (water soluble version)

It is water soluble version of PPP-100. The main attributes are similar to PPP-100.

### Applications

Cosmetics and Personal Care Products.

### Use level

1-10%.

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## Hydrolyzed Pearl

It is made from refined powder of high quality fresh water pearl, 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 level

2-5%.

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## 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 level

1.0-5.0 %.



## Other Recommended Products

### Bosin

#### Action

Used to reduce facial wrinkles and smooth the skin by temporarily paralyzing muscles.

#### Scope of Use

It is often used in forehead lines, eye wrinkles and neck textures.

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### Squalene

#### Function

A natural skin moisturizer that can moisturize the skin and balance oil secretion. Usually extracted from shark liver oil.

#### Scope of Use

Often used in skin care products to help maintain skin moisture, reduce dryness and wrinkles.

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### Ecdoine

#### Function

Ecdoine can bind water molecules to form a water membrane shell, helping the skin to lock in water.

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### Kojic Acid Dipalmitate

#### Product Overview

Kojic acid dipalmitate, also known as kojic acid dipalmitate, kojic acid diester, is a combination of "green", "safe" and "efficient" concepts in one skin whitening antioxidant active substance. It can quickly penetrate into the skin, without affecting the proliferation concentration of skin cells at the same time, effectively inhibit the activity of tyrosinase in the skin, block the formation of melanin, through its own combination with tyrosinase, accelerate the decomposition and excretion of melanin, thereby reducing skin pigmentation. It does not produce toxic, irritating, sensitizing and other side effects on melanocytes, but also has the effects of skin moisturizing, guaixing, bactericidal and synergistic anti-inflammatory.

### Function

- ❁ More effectively inhibit the activity of tyrosinase in the skin, thus inhibiting the formation of melanin, has a good effect on whitening skin and sunscreen;
  - ❁ Can improve skin pigmentation, can fight age spots, stretch marks, freckles and general pigmentation;
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## Hyaluronic Acid

### Product Overview

Hyaluronic acid, also known as hyaluronic acid, is a macromolecular mucopolysaccharide composed of D-glucuronic acid and n-acetylglucosamine. It is widely found in connective tissues and extracellular matrix of animals and human body, such as joint cavity, skin, eye vitreous body, cartilage, umbilical cord and other tissues.

### Function

- ❁ It is a Natural biological molecule widely existing in the skin and other tissues, with excellent moisturizing effect, known internationally as the ideal natural moisturizing Factor (Natural Moisturizing Factor, NMF). It is the best moisturizing substance found in nature for cosmetics.
  - ❁ Acting on the skin surface, the macromolecule hyaluronic acid can form a breathable film on the skin surface, making the skin smooth and moist, and blocking the invasion of foreign bacteria, dust and ultraviolet rays to protect the skin from damage;
  - ❁ Small molecule hyaluronic acid can penetrate into the dermis, has a slight expansion of capillaries, increase blood circulation, improve intermediate metabolism
  - ❁ Promote the absorption of skin nutrition, has a strong anti-wrinkle function, can increase skin elasticity, delay skin aging;
  - ❁ Promote the proliferation and differentiation of epidermal cells, remove oxygen free radicals, can prevent and repair skin damage. rums, facial cleansers, bath fluids, hair shampoos, mousses, lipsticks and other cosmetics.
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## ALLANTOIN

### Product Overview

Allantoin is a non-toxic, tasteless, non-irritating, non-allergic white powder, mainly used as a skin conditioner, protective agent, can help the skin anti-inflammatory, soothing and promote cell repair. Allantoin can reduce the adhesion of stratum corneum cells and accelerate the regeneration of epidermal cells.

### Function

- ❁ Moisturizing the skin: allanosin preparation has a moisturizing effect, can form a protective

film after being applied to the skin, reduce the loss of skin moisture, and reduce the sensitivity of the skin to external stimulation, commonly used to treat chapped, frostbite or small skin ulcers and other conditions;

- ❁ Improve circulation: general allantoin helps to expand the blood vessels in the skin, improve local metabolism, and has a certain protective effect on skin diseases caused by cold, such as chilblains;
  - ❁ Inhibit keratosis: For example, facial acne, hair follicle keratosis is an important cause of acne, and the addition of allantoin in external drugs helps to soften keratin, thereby moisturizing the skin and reducing keratosis.
- 

## Kojic Acid

### Product Overview

Kojic acid is a colorless crystal, which can inhibit the activity of tyrosinase during the production of melanin, has a significant whitening effect, and does not inhibit other enzymes, and has been widely used in whitening sunscreen cosmetics, solvents and toothpaste and other daily chemical industry.

Mainly used as whitening agent, food additive, can also be used as preservative, preservative and color protection agent.

### Function

- ❁ In human skin, tyrosine is catalyzed by tyrosinase to undergo complex oxidation and polymerization with oxygen free radicals, and finally to synthesize melanin. Kojic acid has the function of inhibiting the activity of melanin-producing enzyme tyrosinase, has a significant whitening effect, and does not inhibit other enzymes, has a good freckle, whitening effect, is widely used as a cosmetic raw material, widely used in toner, mask, lotion, skin care cream and so on.
  - ❁ Clear free radicals, antioxidant effect, it can help astringent the skin, promote protein agglutination, help skin firm.
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## Sepiwhite

### Product Overview

Ununylphenylalanine, also known as acylbenamine, is a melanin stimulating hormone ( $\alpha$ -MSH) receptor antagonist. It acts on the biochemical reaction at various stages of melanin formation triggered by  $\alpha$ -MSH, intercepts melanin generation signal, controls the combination of  $\alpha$ -MSH(melanocyte stimulating hormone) and melanin generation factor, and effectively inhibits the activity of tyrosinase. Which inhibits the formation of melanin. It is mainly used in cosmetics as a whitening agent.

## Function

- ❁ Can effectively inhibit the formation of melanin caused by  $\alpha$ -MSH, at the same time can act on multiple stages of melanin formation, used to whiten or reduce the deposition of epidermal melanin, improve dark yellow, rough and other skin problems, uniform skin color, prevent, delay and treat hyperpigmentation in the skin (such as hyperpigmentation after inflammation, color spots such as age spots, etc.).
  - ❁ Can prevent melanin synthesis from the source, that is, inhibit melanin generation signal and inhibit melanin generation enzyme activity.
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## Glutathione

### Product Overview

Glutathione is a tripeptide compound formed by condensation of glutamic acid, cysteine and glycine through peptide bonds. It is widely found in animals and plants, plays an important role in living organisms, and exists in almost every cell of the human body. Glutathione helps maintain normal immune system function, and has antioxidant, free radical scavenging, integrative detoxification and other effects. Its role can not only be used in clinical drugs, but also as the base material of functional food, and has been widely used in health and beauty fields such as delaying aging and whitening.

### Function

- ❁ It is a powerful antioxidant that exists in every cell of the body, which can remove excess free radicals, such as hydrogen peroxide and peroxide free radicals, protect the sulfhydryl group in the protein from oxidation, repair the sulfhydryl group in the damaged protein, restore the active function of the protein, and make the skin cells healthier.
  - ❁ Can inhibit the production of melanin, and decompose existing melanin, prevent the formation of melanin precipitation, so as to prevent the production of color spots, gradually remove the original color spots.
  - ❁ Continuous glutathione supplementation increases the proportion of new muscle cells in skin epidermal cells. It has a good comprehensive hydration and moisturizing effect, making muscle cells more healthy, removing yellow gas, and becoming more tender and elastic.
  - ❁ Can delay cell aging, accelerate cell regeneration, thereby delaying the aging process of the entire human body. Supplementation of glutathione can increase or promote the secretion of human growth hormone (interleukin), which can regulate and slow the shortening of telomeres, prolong cell life, and effectively anti-aging.
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## Collagen

### Product Overview

Collagen is an important structural protein, one of the most important animal proteins, and constitutes the main component of animal tissues. Collagen has a high content of amino acids,

such as glutamic acid, arginine and serine, and is also a common molecule in living organisms, accounting for about 25% of all proteins. They are three-dimensional strings of amino acids bound together by alginic acids.

### Function

- ❁ Anti-wrinkle firming: collagen can increase the elasticity of the skin surface, help improve facial wrinkles, reduce skin fine lines, make the skin more tight and elastic.
  - ❁ Deep moisturizing: collagen can moisturize the skin, make the skin retain moisture, enhance skin elasticity, make the skin more soft and comfortable.
  - ❁ Anti-aging: In addition to increasing the elasticity and softness of the skin, collagen can also effectively protect the skin from ultraviolet damage, anti-aging, delay the aging of the skin.
  - ❁ Eliminate blemishes: collagen can supplement the nutrition of the skin, improve the rough state of the skin, eliminate scars, fade spots, even the skin tone, and make the skin more delicate and smooth.
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## GMS

### Product Overview

Glycerol monostearate is a kind of polyol non-ionic surfactant. Due to its structure with one oil-wet long chain alkyl group and two hydrophilic hydroxyl groups, glycerol monostearate has good surface activity and can play the role of emulsifying, dispersing, defoaming, anti-aging starch, etc. It is the most widely used emulsifier in food and cosmetics.

### Function

- ❁ Moisturizing effect: glycerin stearate has a good moisturizing effect, can absorb the water on the surface of the skin, form a moisturizing film, prevent water loss, keep the skin moist.
  - ❁ Moisturizing effect: The emulsifying properties of glycerin stearate can mix oil and water molecules together to form a mild emulsion, thus providing adequate moisture and nutrition for the skin.
  - ❁ Antioxidant effect: glycerin stearate can be used as an antioxidant, can protect the skin from ultraviolet rays and environmental pollution damage, slow the process of skin aging.
  - ❁ Soothing effect: glycerin stearate can relieve skin inflammation and irritation, reduce skin discomfort, has a certain soothing effect.
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## Sodium Ascorbyl Phosphate

### Product Overview

Sodium ascorbate phosphate is an active ingredient in advanced cosmetic skin care products. It is a stable vitamin C derivative. It protects the skin, promotes its growth and improves its appearance. Sodium ascorbate phosphate in cosmetics, skin care products, the main role is whitening freckle, moisturizing agent, antioxidant, relatively safe, can be assured to use.

### Function

- ❁ The breakdown of enzymes in the skin, the release of active vitamin C, is an effective antioxidant, it protects cells from damage caused by free radicals.
- ❁ Promote collagen production and delay skin aging
- ❁ Acting on the melanin production process to prevent hyperpigmentation and photochemical keratosis.

### Application

Sunscreen formulas, anti-wrinkle products, body lotions, day creams, night creams and whitening products.

### Dosage

Daily skin care 0.2 ~ 2%, sunscreen products 0.2 ~ 1%, whitening products > 3%

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## Retinol

### Product Overview

Retinol is A derivative of vitamin A, and its biological effect is similar to that of vitamin A. The role and effect of retinol skin care products include promoting skin metabolism and promoting collagen production.

### Function

- ❁ Promote skin metabolism: skin epidermal keratinocytes, melanocytes and dermal fibroblasts are all important target cells for retinol and retinol, and can also remove keratinocytes by regulating the abnormal keratosis of hair follicle sebaceous gland epithelium, thus preventing and eliminating acne lesions. Therefore, after the use of retinol, it is conducive to promoting the metabolism of skin cells, brightening skin tone and removing acne;
  - ❁ Promote collagen production: retinol can help increase the elasticity of the skin and promote collagen production. For mature skin, retinol can help increase collagen and stimulate cell renewal, thus shedding the dead skin layer and thinning the skin.
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## Magnesium Ascorbyl Phosphate

### Product Overview

Magnesium ascorbate phosphate is a white or slightly yellow powder, odorless, tasteless, hygroscopic, soluble in water, and stable in light, heat and air. Is a water-soluble whitening agent, promote collagen production, can effectively pigmentation, can make the skin moisturizing, white, smooth, and stable, non-toxic, non-irritating, for the modern functional whitening cosmetics excellent additive.

## Function

- ❁ Whitening freckle: Magnesium ascorbate phosphate into the human body through phosphatase rapid enzymatic hydrolysis of vitamin C (ascorbic acid), and then play the role of vitamin C, tyrosinase activity effectively inhibited, hinder the oxidation chain reaction from tyrosine, dopa pigment tautase to melanin in each point, inhibit the formation of melanin. Therefore, it has therapeutic effect on melasma, pigmentation and sunburn.
  - ❁ Antioxidant: can capture free oxygen free radicals, promote the generation of dermal collagen, strengthen the skin's ability to fight sun damage, therefore, with anti-aging, wrinkle-removing function, make the skin become delicate, smooth, elastic, and vitamin E synergistic effect.
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## Azelaic Acid

### Product Overview

Azelaic acid, also known as rhododendron acid, is extracted from rhododendron petals (pyrethrum and cocoa bean fat also exist). It has strong antibacterial and bactericidal properties, and is often used in clinical treatment of acne, seborrheic dermatitis, superficial fungal infection and pigmentation, and has functions of dissolving cutin, removing acne and cleaning pores.

### Function

- ❁ Antibacterial action: can inhibit the protein synthesis of bacteria, directly inhibit and kill the skin surface and hair follicles in the aerobic bacteria and anaerobic bacteria.
  - ❁ Regulation of sebum: It can competitively inhibit the action of 5- $\alpha$  reductase, inhibit the conversion of excessive androgens into dihydrotestosterone, and ultimately inhibit the excessive secretion of free fatty acids in the sebaceous glands.
  - ❁ Inhibit the production of reactive oxygen species and play an anti-inflammatory role. Azelaic acid can inhibit the hydroxylation of aromatic compounds induced by active oxygen groups and the peroxidation of arachidonic acid in vitro.
  - ❁ Acne treatment: It has an anti-keratinizing effect on normal skin and acne-infected skin, reduces the synthesis of filamentous keratin, and prevents hyperkeratosis of hair follicles.
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## Stearic Acid

### Product Overview

Stearic acid is one of the many fatty acids, stearic acid in cosmetics, skin care products the main role is emulsifier, softener. Stearic acid is an indispensable raw material for general emulsified products, has no adverse effect on the skin, does not cause irritation and allergy, and reacts with alkali to produce "soap base", but the addition of too much is easy to lead to skin discomfort, resulting in skin acne. Often used in snow cream, foundation cream, shaving cream, hair cream and skin care lotion and other cosmetics, different cosmetics use stearic acid content is different, the effect is not the same.

## Function

- ❁ Stearic acid has powerful cleaning powers as a surfactant, a compound that helps reduce the surface tension of water, allowing it to mix with oils and dirt on the surface of the skin. Thanks to stearic acid, the soap grains can attach to dirt and oil on the skin, loosening them and allowing them to be easily washed away by water.
  - ❁ The use of stearic acid as an emulsifier means that it can be combined with other substances (such as oil and water) that are usually separate and incompatible. Without stearic acid, your cleanser won't stay smooth and creamy, but rather separate like oil and vinegar in a salad dressing. Stearic acid is used to emulsify two types of skin care products, such as cream and cold cream, so that it becomes a stable white paste.
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## Cetylalcohol

### Product Overview

Cetyl alcohol is used as cosmetics softener, emulsion regulator, medical coemulsifier, hardener. It is prepared by reduction of cetanoyl chloride with sodium borohydride or by reduction of methyl thiopalmitate with Redwood nickel. White solid, auxiliary emulsifier, especially suitable for creams and lotions. It can fill the gap of the skin cuticle fragments, make the skin texture smooth, soft, and moisturize the skin.

### Function

- ❁ Thickener: cetyl stearyl can increase the viscosity and concentration of skin care products, making it easier to use and apply.
  - ❁ Emulsifier: It can promote the mixing of insoluble oily and water-based ingredients to form a stable emulsion system, so that skin care products are more uniform and stable.
  - ❁ Softener: Cetyl stearyl provides a moisturizing effect that helps keep the skin moist and gives it a soft and smooth feel.
  - ❁ Stabilizer: It can enhance the stability of skin care products, extend its shelf life, and prevent the breakdown or oxidation of ingredients.
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## Urea

### Product Overview

Urea is a natural moisturizing factor that is essential for the hydration of the stratum corneum to ensure its integrity. Urea is widely used in dermatology, is one of the most common moisturizers and cuticle softeners, and can also play a role in repairing the skin barrier.

### Function

- ❁ Moisturizing: urea is a kind of moisturizing agent, with strong water absorption, not only can absorb water from the dermis and transfer to the skin surface, when the external humidity

exceeds 70%, it can also absorb water from the environment, reduce the loss of water through the skin, and the skin feels lighter.

- ❁ Improve skin barrier function: Urea acts on keratinocytes and can also activate the skin immune system, making it difficult for harmful bacteria to enter the skin. In patients with atopic dermatitis, preparations containing urea may improve skin barrier function.
- ❁ Exfoliation: Unlike scrub exfoliators, urea denatures keratin by breaking down the hydrogen bonds of proteins, thereby regulating the cell renewal of the skin, such as the heel, the soles of the feet, elbows and other areas prone to dry and chapped, regular use of urea-containing products can help gently exfoliate the skin.
- ❁ Penetrant: Urea can increase the effect of drugs, helping antifungal agents, corticosteroid drug molecules to penetrate the skin. In skin care products, urea is also added as a skin penetrant. Some power products, such as retinol, combine with urea to get the active ingredient into the skin better.



## Contact Us

Thank you for your attention to Seebio Biotech (Shanghai) Co., Ltd.. If you' ve got any questions or comment, please contact us by phone, fax or email, as well as in letter.

## Seebio Biotech (Shanghai) Co., Ltd.

Building 5, No. 508 Chuanhong Road, Pudong, Shanghai 201202, P.R.China

Phone: +86 21 58183719

Fax: +86 21 50272982

Email: [market@seebio.cn](mailto:market@seebio.cn)

Web: [www.allinno.com](http://www.allinno.com)



Whatsapp: +86-15801957578

