Cosmetic Materials

In the never ending search to improve and retain their youthful appearance, more and more people are turning to cosmetic applications for their skin. In an effort to keep their skin healthy, as well as cover up blemishes and wrinkles, more people are seeking cosmetic products which contain moisturizers, whitening agents, and sunscreens. Below are listed some high quality products available from us for use in cosmetics.

**Skin Moisturizers**

**Sodium Hyaluronate**

This product is extracted from cockscomb, followed by separation and purification, and then freeze-dried to give the final pure product. It is widely used in various cosmetics as a moisturizer, since it hydrates the skin due to its high water-holding capacity.

**Z2045 Sodium Hyaluronate** (Lyophilized) (Cockscomb)
Appearance : white cotton like, tasteless, odorless
Nitrogen (N) : 2.8 ~ 4.0%
Gluconic acid : 43.0 ~ 51.0%
Identity test : to pass test
pH : 5.0 ~ 8.5
Heavy metals : < 20ppm
Arsenic : < 2ppm
Protein : to pass test
Others acidic mucopolysaccharide : to pass test
Loss on drying : < 15.0%
Residue on ignition (sulfates) : 15.0 ~ 20.0%

**Z2035 Sodium Hyaluronate** (Lyophilized) (Cockscomb)
Appearance : white cotton like, tasteless, odorless
Nitrogen (N) : 2.8 ~ 4.0%
Gluconic acid : 37.0 ~ 43.0%
Identity test : to pass test
pH : 5.0 ~ 8.5
Heavy metals : < 20ppm
Arsenic : < 2ppm
Protein : to pass test
Loss on drying : < 15.0%
Residue on ignition (sulfates) : 15.0 ~ 20.0%

**Z2034 Sodium Hyaluronate** (1% in Water) (Cockscomb)
Appearance : colorless viscosity clear liquid
Sodium hyaluronate content : 1.0 ~ 1.5%
Identity test : to pass test
pH : 5.0 ~ 7.5
Heavy metals : < 20ppm
Arsenic : < 2ppm
Evaporation residue : 1.0 ~ 1.3%

**D-Glucamine**

D-Glucamine has smoothing and moisturizing effects on the skin. It is blended into many cosmetic products.

**D-(+)-Glucosamine Hydrochloride**

D-(+)-Glucosamine is a natural amino sugar, which forms chitin and chitosan, that is extracted from crustacea such as crabs and prawns. It is also one of the main components of cartilage cells. Glucosamine soothes and alleviates dry skin, makes the application of make-up products smoother, and increases the moisture level of the skin.

**Alkanetriols**

1,2,6-Hexanetriol is blended into cosmetic products as a moisturizer.

**Please inquire for pricing and availability of listed products to our local sales representatives.**
Cosmetic Materials

Kojic Acid

Kojic Acid has become known for its anti-bacterial properties and whitening effects due to its retardation of melanism. Since it also inhibits enzymes which deteriorate foodstuffs, it is being employed not only as a compounding agent in cosmetics, but also as a deterioration inhibitor for foodstuffs, especially in the prevention of the discoloration of a crab.

**Appearance**: White to light yellow crystals or crystalline powder. Practically odorless

**Melting point**: 154 ~ 158 °C

**Purity (Potentiometric titration)**: > 98.0 %

**Z2135 / Z2028 Kojic Acid (practical grade)**

- **Appearance**: White to light yellow. Crystalline powder to powder
- **Melting point**: 153 ~ 158 °C
- **Residue on ignition (sulfates)**: < 0.5 %
- **Water content**: < 2.0 %
- **Purity (Potentiometric titration)**: > 98.0 %
- **Heavy metals**: < 20 ppm
- **Arsenic**: < 2 ppm
- **Microbiological test**: Bacteria < 3,000 cfu/g, Coliform group 0 cfu/g, Mold < 50 cfu/g

Arbutin

It is reported that arbutin inhibits the activity of tyrosinase, which is a key enzyme for melanin biosynthesis. This acts to effectively prevent the anomalous increase of melanin which is blamed for "age or sun spots and freckles."

Chondroitin Sulfate Sodium Salt

Chondroitin Sulfate Sodium Salt, one of the mucopolysaccharides, is known to exist extensively within the connective tissues of the skin and cartilage of living organisms. It is believed that the content of chondroitin within the skin decreases with age. It is blended into cosmetic products as a moisturizer.

Alkanediols

- B0679 1,3-Butanediol [107-88-0]
- B1159 (R)-(−)-1,3-Butanediol [6290-03-5]
- B1160 (S)-(+) -1,3-Butanediol [24621-61-2]

Butanediol is blended into cosmetic products as a moisturizer.

Skin-Whitening Ingredients

Kojic Acid

Kojic Acid has become known for its anti-bacterial properties and whitening effects due to its retardation of melanism. Since it also inhibits enzymes which deteriorate foodstuffs, it is being employed not only as a compounding agent in cosmetics, but also as a deterioration inhibitor for foodstuffs, especially in the prevention of the discoloration of a crab.

**Appearance**: White to light yellow crystals or crystalline powder. Practically odorless

**Melting point**: 154 ~ 158 °C

**Purity (Potentiometric titration)**: > 98.0 %

**Z2135 / Z2028 Kojic Acid (practical grade)**

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- **Melting point**: 153 ~ 158 °C
- **Residue on ignition (sulfates)**: < 0.5 %
- **Water content**: < 2.0 %
- **Purity (Potentiometric titration)**: > 98.0 %
- **Heavy metals**: < 20 ppm
- **Arsenic**: < 2 ppm
- **Microbiological test**: Bacteria < 3,000 cfu/g, Coliform group 0 cfu/g, Mold < 50 cfu/g

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Chelidamic Acid Monohydrate

Chelidamic Acid is attracting attention as a pharmaceutical intermediate and as well as a cosmetic material due to its anti-inflammatory and whitening properties.
Hair Dyeing

Amidol

\[
\text{OH} \quad \text{NH}_2 \quad \text{NH}_2 \quad 2\text{HCl}
\]

Amidol, used as a photo-developing agent, is also used as a component of hair-dyeing products.

UV-absorber

2-Ethylhexyl 4-Methoxycinnamate

\[
\text{CH}_3\text{O}\quad\text{C} \quad \text{CH} = \text{CH} - \text{C} = \text{O} \quad \text{CH}_2\text{CH} \text{(CH}_2)_2\text{CH}_3 \\
\text{CH}_2\text{CH}_3
\]

2-Ethylhexyl 4-Methoxycinnamate is frequently blended into cosmetic products as a sunscreen.

Others

ω-Aminoalkanols

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<th>A0297</th>
<th>2-Aminoethanol</th>
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<tr>
<td>A0298</td>
<td>Ethanolamine Hydrochloride</td>
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<td>3-Amino-1-propanol</td>
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<td>5-Amino-1-pentanol</td>
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<td>A1027</td>
<td>6-Amino-1-hexanol</td>
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TCI EUROPE N.V.

Tel : +32 (0) 3 735 07 00
Fax : +32 (0) 3 735 07 01
E-mail : sales@tcieurope.eu
Website : www.tcieurope.eu

TCI Deutschland GmbH

Tel : +49 (0) 6196 998678-0
Fax : +49 (0) 6196 998678-1
E-mail : sales@tcideutschland.de
Website : www.tcieurope.eu/de/

Tokyo Chemical Industry UK Ltd.

Tel : +44 (0) 1865 745560
Fax : +44 (0) 1865 745561
E-mail : sales@tc-uk.co.uk
Website : www.tci-uk.co.uk

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