

HANGZHOU RUIJIANG INDUSTRY CO.,LTD

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PRODUCT PROMOTION





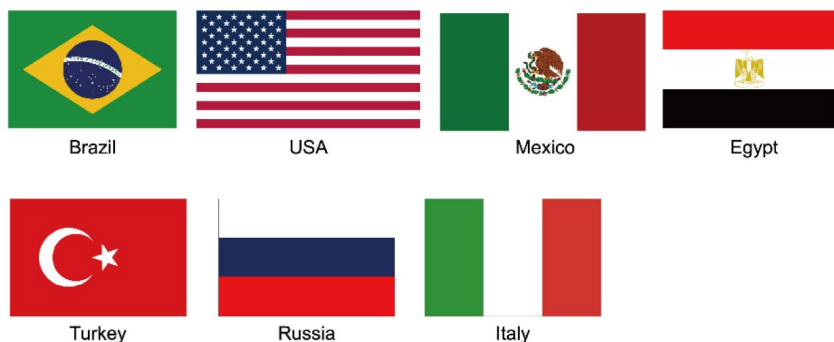
RUIJIANG GROUP

Ruijiang Group is a chemical corporation providing products with the most consistent quality, coordinated technical support and devoted service for clients worldwide.

With headquarter in Hangzhou China, Ruijiang Group has developed fast since founded in 1999 (Formerly as Chun-an Foreign Trade Co., Ltd since 1973), and now owns Hangzhou Ruijiang Chemical Co., Ltd., Hangzhou Ruijiang Industrial Co., Ltd., Zhejiang Chun-an Foreign Trade Co., Ltd and other companies. Ruijiang aims to provide product solutions in cosmetics, textiles, coatings, plastics, and other fields for clients around the world.

Hangzhou Ruijiang Industrial Co., Ltd., as the main business for cosmetics & textiles, all the products enjoy a praised reputation among our customers with advantage price and good quality. In global markets, our customers range in South/North America, Mid-east, Europe, and Asia, totally 50 countries more.

Ruijiang Group aims to have a diversified development and to become the most respected chemical expertise in the world, enabling the development of sustainable solutions to our customers' challenges, further enhancing their business performance.



We have seven offices overseas till now, which are in Brazil, USA,, Egypt, Mexico, Turkey, Russia, and Italy, we have resident staff in these offices, they can speak local language, and the communication is more smoothly. We already established warehouse in USA and Italy, and other countries' warehouse are under building; it will reduce the delivery time largely. We'll continue to build more overseas branches in order to get faster respond to customers' needs.



TECHNOLOGY CENTER

With 20 mainly master-degree technology R&D specialists, the R&D Department is responsible for the new product research and development and providing technical solutions to clients.

Equipped with more than 10 professional inspectors, Quality Testing Department assures customer's high quality and high performance products. The lab has established long-term cooperation with several renowned colleges and scientific research institutions. We hire a number of chemical experts as company counselors, in order to keep our product and service among the forefront of the world.



Ruijiang Technology Center was founded in 2008, and it is composed by R&D department and Quality Testing department. We are building the technology center in US now.

OXIDATIVE DYES

| Trade Name | Chemical Name | Cas No |
|-----------------|--|-------------|
| RUICOLOR NAP | 1-NAPHTHOL | 90-15-3 |
| RUICOLOR RS | RESORCINOL | 108-46-3 |
| RUICOLOR 4AMC | 4-AMINO-M-CRESOL | 2835-99-6 |
| RUICOLOR PAOC | 5-AMINO-O-CRESOL | 2835-95-2 |
| RUICOLOR PNOC | 5-NITRO-O-CRESOL | 5428-54-6 |
| RUICOLOR 6AMC | 6-AMINO-M-CRESOL | 2835-98-5 |
| RUICOLOR 6AOC | 6-AMINO-O-CRESOL | 17672-22-9 |
| RUICOLOR 26DAP | 2,6-DIAMINO PYRIDINE | 141-86-6 |
| RUICOLOR MPD | M-PHENYLENE DIAMINE | 108-45-2 |
| RUICOLOR 4CR | 4-CHLORO RESORCINOL | 95-88-5 |
| RUICOLOR 2MR | 2-METHYL RESORCINOL | 608-25-3 |
| RUICOLOR 6CP | 6-CHLORO-5-AMINO-O-CRESOL | 84540-50-1 |
| RUICOLOR PPDS | P-PHENYLENE DIAMINE SULFATE | 16245-77-5 |
| RUICOLOR MPDS | M-PHENYLENE DIAMINE SULFATE | 541-70-8 |
| RUICOLOR PM | P-METHYLAMINOPHENOL SULFATE | 55-55-0 |
| RUICOLOR 24DAS | 2,4-DIAMINO ANISOLE SULFATE | 39156-41-7 |
| RUICOLOR 25DTS | 2,5-DIAMINO TOLUENE SULFATE | 615-50-9 |
| RUICOLOR 24DAPS | 2,4-DIAMINOPHENOXYETHANOL SULFATE | 70643-20-8 |
| RUICOLOR OCPPDS | O-CHLORO-P-PHENYLENE DIAMINE SULFATE | 61702-44-1 |
| RUICOLOR 24DAPE | 2,4-DIAMINOPHENOXYETHANOL DIHYDROCHLORIDE | 66422-95-5 |
| RUICOLOR WP5 | 4,5-DIAMINO-N-HYDROXYETHYL PYRAZOLE SULFATE | 155601-30-2 |
| RUICOLOR 2A4HAS | 2-AMINO-4-HYDROXYETHYLAMINO ANISOLE SULFATE | 83763-48-8 |
| RUICOLOR NNBIS | N,N-BIS-(2-HYDROXYETHYL)-P-PHENYLENE DIAMINE SULFATE | 54381-16-7 |

| Trade Name | Chemical Name | Cas No |
|----------------|--|-------------|
| RUICOLOR MAP | M-AMINOPHENOL | 591-27-5 |
| RUICOLOR PAP | P-AMINOPHENOL | 123-30-8 |
| RUICOLOR OAP | O-AMINOPHENOL | 95-55-6 |
| RUICOLOR 124B | 1,2,4-BENZENTRIL | 533-73-3 |
| RUICOLOR 25D | 2,5-DIAMINO TOLUENE | 95-70-5 |
| RUICOLOR PAPS | P-AMINOPHENOL SULFATE | 63084-98-0 |
| RUICOLOR 2A3HP | 2-AMINO-3-HYDROXY PYRIDINE | 16867-03-1 |
| RUICOLOR 15D | 1,5-DIHYDROXY NAPHTHALENE | 83-56-7 |
| RUICOLOR 27D | 2,7-DIHYDROXY NAPHTHALENE | 582-17-2 |
| RUICOLOR 123B | 1,2,3-BENZENTRIL (PYROGALLOL) | 87-66-1 |
| RUICOLOR 4ADS | 4-AMINODIPHENYLAMINE SULFATE | 4698-29-7 |
| RUICOLOR PMP | 1-PHENYL-3-METHYL-5-PYRAZALONE | 89-25-8 |
| RUICOLOR 26D | 2,6-DIHYDROXYETHYLAMINO TOLUENE | 149330-25-6 |
| RUICOLOR TAPS | 2,4,5,6-TETRAAMINOPYRIMIDINE SULFATE | 5392-28-9 |
| RUICOLOR PAOX | 2-METHYL-5-HYDROXYETHYLAMINOPHENOL | 55302-96-0 |
| RUICOLOR HPPDS | HYDROXYETHYL P-PHENYLENE DIAMINE SULFATE | 93841-25-9 |



ALKYL POLYGLYCOSIDE

Trade Name: APG 0814

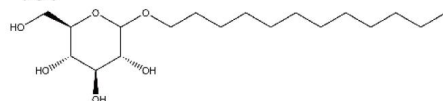
CTFA Nomenclature: C8-C10 alkyl polyglycoside & C12-C14 alkyl polyglycoside

CAS No.: 68515-73-1&110615-47-9

Trade Name: APG 1214

CTFA Nomenclature: C12-C14 alkyl polyglycoside

CAS No.: 110615-47-9



Specification:

| Name | APG 0814 B46 | APG 0814 B64 | APG 1214 |
|---------------------------------|--------------------|--------------------|--------------------|
| Appearance | Pale Yellow Liquid | Pale Yellow Liquid | Pale Yellow Liquid |
| Active Content, % | 50.0-52.0 | 50.0-52.0 | 50.0-52.0 |
| pH, 10%aq | 11.5-12.5 | 11.5-12.5 | 11.5-12.5 |
| Free Alcohol, % | <1.0 | <1.0 | <1.0 |
| Ash, % | <3.0 | <3.0 | <3.0 |
| Viscosity, MPa·s | 2500-6000 | 500-2000 | 2000-4000 |
| Color | <50 | <50 | <50 |
| Butyl Glucoside | 0 | 0 | 0 |
| Density, g/cm ³ @25℃ | 1.07-1.11 | 1.07-1.11 | 1.07-1.11 |
| DP | 1.3-1.5 | 1.3-1.5 | 1.3-1.5 |
| Surface Tension, Mn/m, 25℃, 1% | 28-30 | 28-30 | 28-30 |

- We can produce APG 0814 with different viscosity and pH value accordingly to customer's request.
- Our quality can compare with BASF products (Butyl glucoside item)

Application:

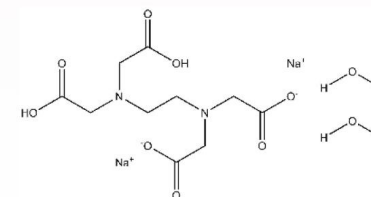
APG 0814: Can be widely used in personal care and household cleaners: shampoo, body-cleanser, cream rinses, hand sanitizer, and dishwashing, etc. Also can be used in hard surface cleaning, scouring agents in textile industry with alkaline stability and high temperature resistance.

APG 1214: Has unique performance in cleaning, emulsifying and thickening, it can be widely used in personal care products, hard surface cleaners, agrochemical emulsifiers, etc.

EDTA 2NA/4NA

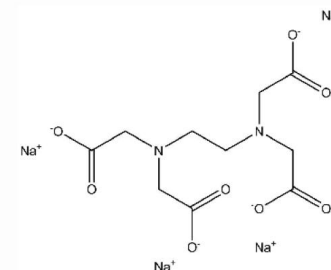
CTFA Nomenclature: EDTA 2NA

CAS No.: 6381-92-6



CTFA Nomenclature: EDTA 4NA

CAS No.: 13235-36-4



Specification:

| Specification | Appearance | Purity (%) | Iron (%) | Sulfate (%) | PH | Chelate Value (mgCaCO ₃ /g) | Chloride (%) | Heavy Metal (%) |
|---------------|--------------|------------|----------|-------------|-----------|--|--------------|-----------------|
| EDTA 2Na | White Powder | ≥99.0 | ≤0.001 | ≤0.05 | 4.0-5.0 | ≥265 | ≤0.01 | ≤0.001 |
| EDTA 4Na | White Powder | ≥99.0 | ≤0.001 | ≤0.05 | 10.5-11.5 | ≥215 | ≤0.05 | ≤0.001 |

Application:

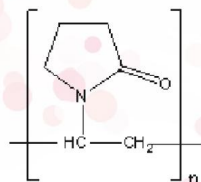
EDTA 2NA & EDTA 4NA are amino-carboxylic acid with six functional groups whose characteristic reactions enable them to form complexes. They are used as organic chelating agent for cosmetic formulations. It can sequester undesirable metal ions in cosmetic preparations, preventing precipitation of the salts responsible for water hardness and protecting against rancidity and color changes caused by heavy metal ions.



PVP K 30/ K 90

CTFA Nomenclature: Polyvinylpyrrolidone (PVP)

CAS No.: 9003-39-8



Specification:

| Specification | K-Value | Solid, % | PH | NVP, % |
|----------------|---------|----------|-----|--------|
| PVP K30 Powder | 27-33 | ≥95 | 3-7 | ≤0.01 |
| PVP K90 Powder | 88-96 | ≥95 | 5-9 | ≤0.01 |

Application:

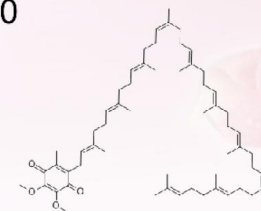
PVP K 30: Used as film forming agent and thickener in hair spray, hair gel and mousse, also used as emulsion stabilizer in cream and lotion; in medicine, widely used as adhesives, film forming agent, solubilizers, suspension stabilizer and dispersant.

PVP K 90: Used as film forming agent and thickener in hair gel; in medicine, can be used as adhesives, thickener and suspension stabilizer

COENZYME Q10

INCI name: Coenzyme Q10

CAS No.: 303-98-0



Specification:

| Specification | Standard |
|---|--|
| Appearance | Yellow Or Orange Crystalline Powder |
| Odor | Odorless And No Taste |
| Solubility | Insoluble In Water, Soluble In Acetone, Very Slightly Soluble In Ethanol |
| Identification | A: IR B: Color Reaction: Positive |
| Content, % | 98.0-101.0 |
| Tapped Density, g/ml | ≥0.40 |
| M.P., °C | 48-52 |
| Water Content, % | ≤0.2 |
| Ignition Residue, % | ≤0.10 |
| Heavy Metals, ppm | ≤20 |
| Lead, ppm | ≤2 |
| Arsenic, ppm | ≤1 |
| Mercury, ppm | ≤0.1 |
| Cadmium, ppm | ≤1 |
| Granularity, % | 100% Through 80# Sieve(US) |
| Coenzymes Q7, Q8, Q9, Q11 and Related Impurities, % | ≤1.0 |
| Ubidecarenone (2z)-Isomer and Related Impurities, % | ≤1.0 |
| Total Impurities, % | ≤1.5 |
| Residual Solvents, ppm | N-Hexanes≤200 |
| | Ethanol≤1000 |
| | Ethyl Acetates≤3000 |
| Microbial Limits, cfu/g | Total Plate Counts≤1000 |
| | Yeast & Molds≤100 |
| | E. Coli(In 10g) |
| | Salmonella(In 25g) |

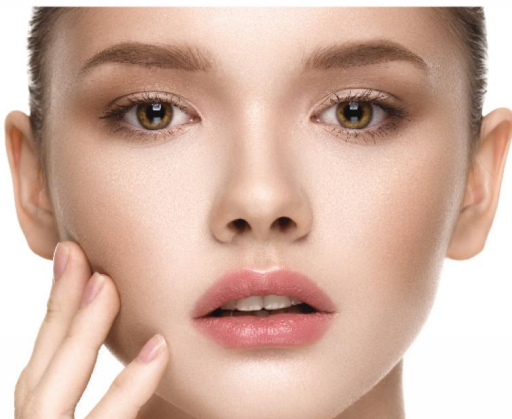
Application: Widely used as anti-aging agent in cosmetics, especially for eye cream; also can be used as antioxidants, immunostimulants & metabolic activator in food and medicine, especially in health care products

CATIONIC GUAR

INCI name: Guar Hydroxypropyl trimonium

ChlorideHydroxypropyl Guar Hydroxypropyl trimonium Chloride

CAS NO.: 65497-29-2/71329-50-5



PRODUCT LIST:

| Trade Name | Degree of Modification | Shampoo | Treatment & Conditioner | Baby Shampoo | Weightless Volume Shampoo | Facial Cleanser | Baby Care | Eye Care | Face Care | Feminine Hygiene |
|------------|------------------------|---------|-------------------------|--------------|---------------------------|-----------------|-----------|----------|-----------|------------------|
| RJ-01 | Low | ★★★★ | ★ | | ★ | | ★★ | | ★ | ★ |
| RJ-02 | Medium | ★★★★ | ★ | | | ★★ | ★★ | | ★ | ★ |
| ★ RJ-03 | Medium | ★★★★ | ★ | | | ★★ | ★★ | | ★ | ★ |
| ★ RJ-04 | Medium | ★★★★ | ★ | | ★★★★ | | ★★ | | ★ | ★ |
| RJ-05 | High | ★★★★ | ★★★★ | | | | ★★ | | ★ | |
| ★ RJ-06 | Medium | ★★★★ | ★★ | ★★★★ | ★ | ★★★★ | ★★ | ★★★★ | ★★ | ★★★★ |
| ★ RJ-07 | Medium | ★★★★ | ★ | ★★★★ | ★ | ★★★★ | ★ | ★★ | ★★★★ | ★★ |

★★★★ Highly recommended ★★★ Recommended ★ Suitable



| Name | Nitrogen, % | Viscosity (mPa.s) | PH Value (1%, 25 °C) | Use Level, % | Features/Benefits |
|-------|-------------|-------------------|----------------------|--------------|---|
| RJ-01 | 1.0-1.5 | ≥3000 | 5.5-7.0 | 0.2-1 | Substantive to hair and has a favorable effect on wet and dry comb ability. Self-hydrating. |
| RJ-02 | 1.3-1.7 | ≥3000 | 5.5-7.0 | 0.2-1 | Substantive to hair and skin. Provides excellent wet comb conditioning and soft non-tacky feel to hair; positive influence on anti hair breakage. Self-hydrating. |
| RJ-03 | 1.3-1.7 | ≥3000 | 9.0-10.5 | 0.2-1 | Substantive to hair and skin. Provides excellent wet comb conditioning and soft non-tacky feel to hair; positive influence on anti hair breakage. |
| RJ-04 | 1.3-1.7 | 10-100 | 9.0-10.5 | 0.1-2 | Low aqueous viscosity, no build-up upon repeated use; ideal conditioning solution for weightless feel, volumizing shampoos. |
| RJ-05 | 1.5-2.1 | ≥2000 | 9.0-10.5 | 0.2-0.5 | Provides the highest deposition efficiency of actives (silicone, UV filters, anti-dandruff) on virgin hair. |
| RJ-06 | 1.5-2.1 | — | 9.0-10.5 | 0.1-1 | Provides high conditioning benefits, suitable for baby shampoo formulations and clear, silicone-free solution. |
| RJ-07 | 1.0-1.5 | — | 9.0-10.5 | 0.1-1 | Silky skin feel especially targeted at skin care rinse-off application. Improving deposition of silicone on chemically-treated hair. |

UV FILTER



| Product Name | CAS No. | Structure | Function |
|------------------------|------------|-----------|------------------------------------|
| Benzophenone-3 | 131-57-7 | | Oil-soluble UV-A& UV-B absorber |
| Benzophenone-4 | 4065-45-6 | | Water-soluble UV-A & UV-B absorber |
| Avobenzene | 70356-09-1 | | Oil-soluble UV-A absorber |
| Octyl salicylate | 6969-49-9 | | Oil-soluble UV-B absorber |
| Octocrylene | 6197-30-4 | | Oil-soluble UV-A & UV-B absorber |
| Octyl Methoxycinnamate | 5466-77-3 | | Oil-soluble UV-B absorber |

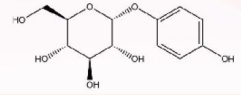
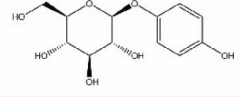
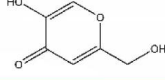
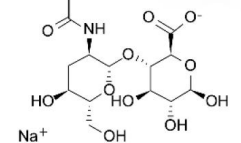
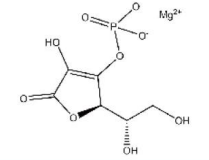
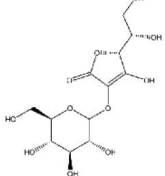
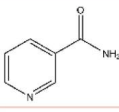
Application: Ultraviolet radiation absorber, widely used in sunscreen cosmetics, like cream, lotion, oil, etc., also can be used in hair care products, can effectively absorb the UV-A and UV-B, preventing the skin and hair from the sunburn. Also can be used in plastics, paint, inks and so on.



PRODUCT PROMOTION

| Chemical Name | CAS No. | Functions |
|------------------------------------|------------|--|
| Lanolin | 8006-54-0 | Moisturizers, lubricant |
| Cocoonut Diethanol Amide | 68603-42-9 | Emulsifier, lubricant |
| Polyquaternium-6 | 26062-79-3 | Flocculant |
| Polyquaternium-7 | 26590-05-6 | Conditioning agent, used in shampoo, shower gel, etc. |
| Polyquaternium-10 | 68610-92-4 | Film forming, moisturizer |
| Sodium Alkyl Benzene Sulfonate 80% | 25155-30-0 | Foaming, detergency |
| Sodium Lauryl Sulfate 96% | 151-21-3 | Foaming, emulsification, wetting |
| Propylene Glycol | 57-55-6 | Hygroscopic, antifreeze, lubricant |
| Guanidine Carbonate | 593-85-1 | Wetting, synergist, precipitant |
| Glyoxylic Acid 50% | 298-12-4 | Flavoring agent |
| Zinc Pyrithione 48% | 13463-41-7 | anti-dandruff agent |
| Ammonium Persulphate | 7727-54-0 | bleach |
| Potassium Persulphate | 7727-21-1 | Initiator, bleach, oxidant |
| Talc | 14807-96-6 | Filler |
| Sodium Erythorbate | 6381-77-7 | Anti-oxidant, anti-corrosion additive |
| Sodium Stannate | 12058-66-1 | Mordant, fire retardant and weighting agent in textile |
| Triclosan | 3380-34-5 | Preservative; fungicide |
| Imidazolidinyl Urea | 39236-46-9 | Preservative |
| Camphor | 76-22-2 | Preservative |
| Salicylic Acid | 69-72-7 | Preservative |
| Allantoin | 97-59-6 | Anti-inflammatory, analgesic |
| Triclocarban | 101-20-2 | Bacteriostatic agent |

SKIN WHITENER & MOISTURIZER

| Chemical Name | CAS No. | Functions |
|------------------------------|-------------|---|
| Alpha-Arbutin | 84380-01-8 |  |
| Beta-Arbutin | 497-76-7 |  |
| Kojic Acid | 501-30-4 |  |
| Hyaluronate Acid | 9004-61-9 |  |
| Magnesium Ascorbyl Phosphate | 113170-55-1 |  |
| Ascorbic Acid 2-Glucoside | 129499-78-1 |  |
| Nicotinamide | 98-92-0 |  |
| Silk Peptide | — | — |
| Silk Amino Acid | 96690-41-4 | — |

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