

BGT

BIO GENETIC TECHNOLOGY

Exclusively Distributed By:

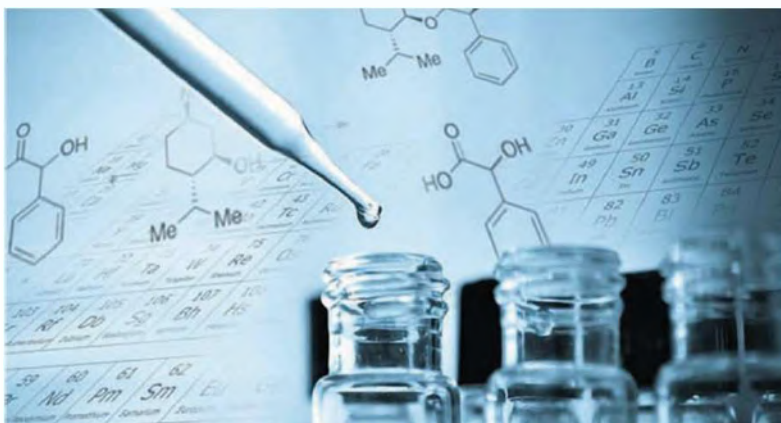


Integrity Ingredients Corporation

"Your Innovation Partner"

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(310) 782-0282

Innovations Create Beauty Specialty Ingredients



Company's Introduction

BioGenetic Technology (BGT) is a US-based, high-tech biotechnology company focusing on innovative biosynthesis, molecular structures, and computational biology for the beauty industry.

We also have excellent manufacturing capabilities of specialty functional ingredients for the cosmetic and personal industries. Our production capability is about 50,000MT/yr and reserve a large piece of land for the company's development and expansion. We offer emerging ingredients across all major beauty care categories, focusing on innovative green emulsifiers, natural surfactants, emollient esters, and humectants.

We are committed to research, science, and innovation. We set the highest ethical standards and take accountability for sustainability, social responsibility, health, and well-being. We strive for long-term business success, to improve our social, economic, and environmental accomplishments, and to solve human beauty and aging problems. We believe that our effort and success will contribute to a better and more beautiful world! We are BioGenetic Technology (BGT).



Innovative Raw Material

Natural Ceramide-Like Liquid Crystal Emulsifiers

Exclusively Made by Bio Genetic Technology

Product Trade Name: **BGT™ DOLGS**

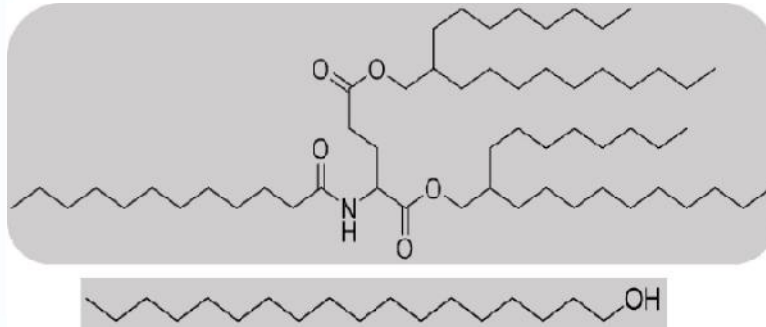
Product INCI Name: Dioctyldodecanol Lauryl Glutamate (and) Stearyl Alcohol

CAS Number: 82204-94-2 / 112-92-5

Appearance: White to pale yellow flakes

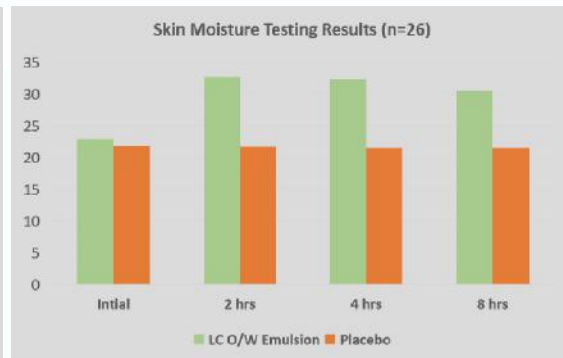
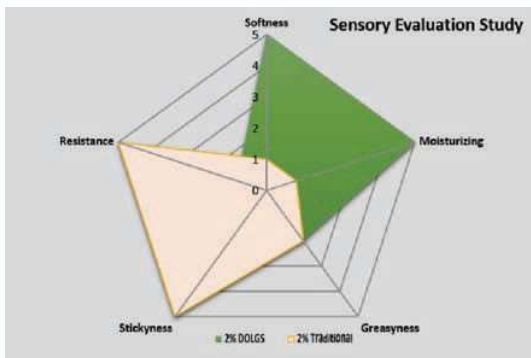
Applications: Skincare, Suncare, Babycare and Haircare

Usage Level: 1-3%



Product Performance and Functionalities:

- Our skin intercellular lipids of the stratum corneum (SC) form a lamellar structure (LS) that consists mainly of ceramides, which demonstrate significant skin barrier function. This natural ceramide-like liquid crystalline (LC) structure has a bi-continuous composition of water and amphiphilic lipids and concurrently keeps high moisturizing and water loss prevention effects.
- Because of the formation of lamellar liquid crystal emulsion by BGT™ DOLGS, it has enhanced the barrier function of the SC to strengthen the intercellular lipid matrix and further prevent skin sagging.
- Many liquid crystal systems exist with poor stability during application to the human skin because the liquid crystals surrounding the oil droplets break and disappear quickly at skin temperature. However, BGT™ DOLGS creates very stable LC O/W emulsions at temperatures higher than skin temperature and confirms their efficacy and function as bio-mimetic of the intercellular skin lipids.



Innovative Raw Material

Green Liquid Crystal Emulsifying Emollient Ester

Exclusively made by Bio Genetic Technology

Product Trade Name: **BGT™ DLG**

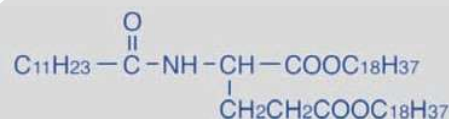
Product INCI Name: Distearyl N-lauroyl-L-Glutamate

CAS Number: 55258-21-4

Appearance: : White Flakes

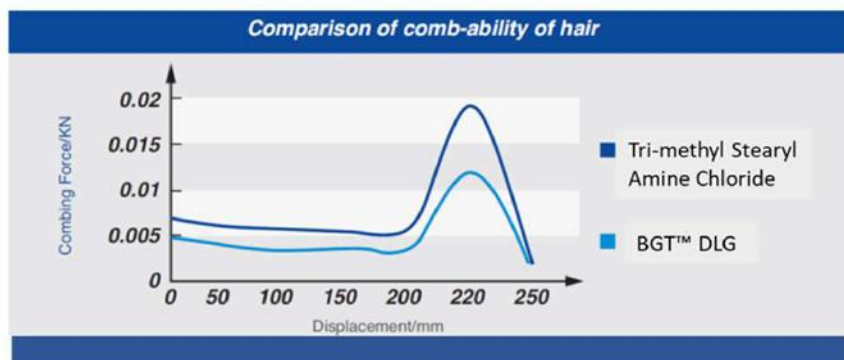
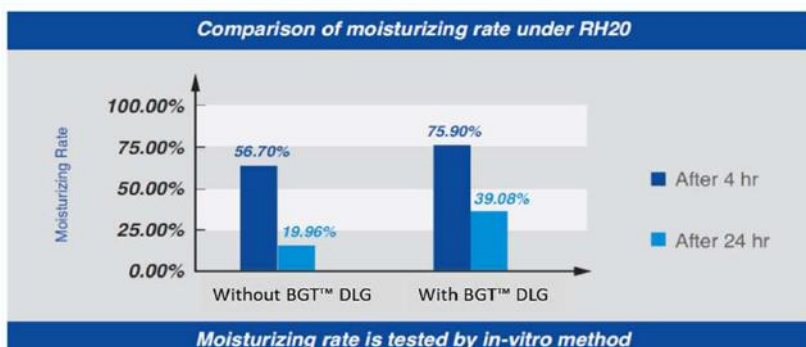
Applications: Skincare, Suncare, Babycare and Haircare

Usage Level: 1-3%



Product Performance and Functionalities:

- BGT™ DLG is originated from all natural raw materials; it is very mild, highly safe and all-purpose nonionic surfactant with excellent emolliency, liquid crystal emulsifying, super moisturizing, conditioning and revitalizing properties
- BGT™ DLG is a multi-functional ingredient for all skincare formulations. The product not only plays an important role for emolliency such as softening skin feel and final product appearances but also has great emulsification capability
- This product can make liquid crystal emulsion system that delivers high moisturization and water loss prevention effects; because the formation of lamellar liquid crystal emulsion, it can enhance barrier function of the SC to strengthen the intercellular lipid matrix and further prevent skin sagging
- BGT™ DLG is also a good hair conditioning agent which improves the softness and luster of hair, provides better dry and wet combability, and repairs damaged hair.



Multi-Functional Innovative Raw Material

Green Ingredient Induced by Lyotropic Liquid Crystal System as Surfactant, Emulsifier and Emollient

Exclusively made by Bio Genetic Technology

Product Trade Name: **BGT™ SHCG**

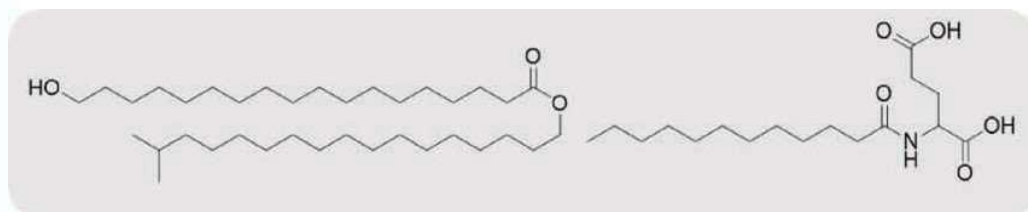
Product INCI Name: Isostearyl Hydroxystearate (and) Cocoyl Glutamic Acid

CAS Number: 162888-05-3 / 210357-12-3

Appearance: Pale Yellow Liquid

Applications: Facial Cleansers, Body Wash, , Skincare, Baby Products & Hair Care

Usage Level: 1-3%

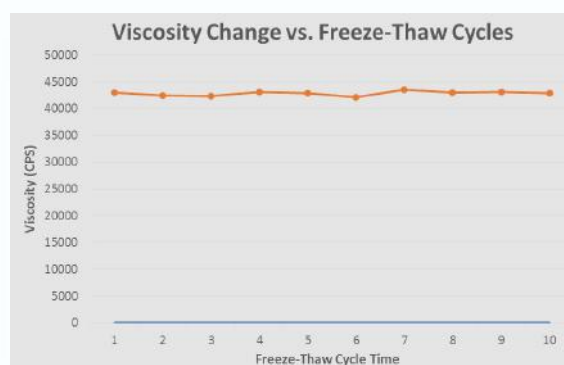


Product Performance and Functionalities:

In personal cleansing product technology, the thickening and stabilization of amino acid surfactant systems has always been a challenging subject of technical research. The stable lyotropic liquid crystal formed by BGT™ SHCG can provide a perfect technical solution for the thickening of amino acid surfactant systems.

- BGT™ SHCG is especially suitable for preparing high-viscosity amino acid salt facial cleansing creams that are not subject to changes in ambient temperature
- The creamy cleansing product by BGT™ SHCG has good thixotropy and high-quality foams BGT™ SHCG can greatly reduce the surfactants' irritation and further provide moisturizing and repairing properties, which can make the skin feel refreshed, soft, and moisturized after washing
- Lyotropic liquid crystal system formed by BGT™ SHCG can be as a carrier to carry other active components to make very stable formulations
- BGT™ SHCG is also an emulsifier with great skin feel and can form a relatively stable emulsions for all skincare products

Product	%
Sorbital(70%)	15.0
Sidium Lauroyl Sarcosinate(30%)	50.0
Ethylhexyl Glycerol	4.0
Lauric Acid	5.2
Isostearic Acid	3.0
BGT™ SHCG	2.5
Cocamide MIPA	1.5
Water	18.8



Natural Amino Acid High Moisturizing Emollient Ester

Product Trade Name: **BGT™ POLG**

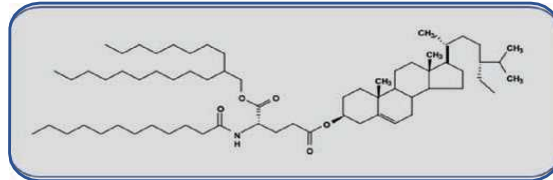
Product INCI Name: Phytosteryl / Octyldodecyl Lauryl Glutamate

CAS Number: 220465-88-3

Appearance: Colorless to Pale Yellow Liquid

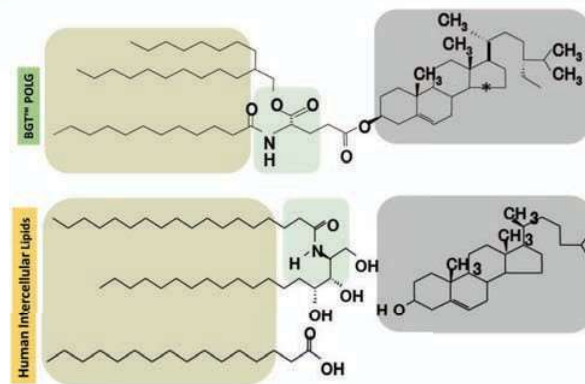
Applications: Skincare, Suncare, Foundations, Color Cosmetics and Makeup Remover

Usage Level: 0.2-3%



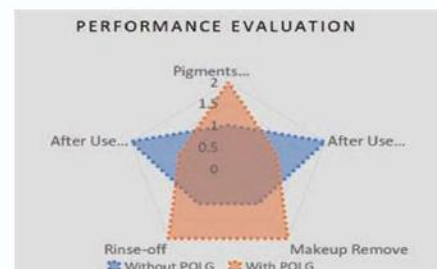
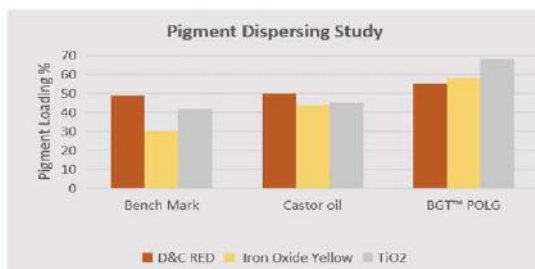
Product Super Structure vs. Human Lipids:

BGT™ POLG is an emollient that combines glutamic acid (an amino acid) with phytosterol (Like cholesterol but occurs in plants), forming structures that are very similar to the natural ceramide of the human skin. Therefore, it provide exceptional skin feel and remarkable moisturizing retention



BGT™ POLG Performance and Functionalities:

- BGT™ POLG is a moisturizing emollient ester derived from 100% natural plants. It can form a lipid film on the skin surface, which is very similar to the lipid structure between cells in the skin
- BGT™ POLG is derived from an amino-acid (glutamic acid) and phytosterol; it can form lamellar liquid crystals like the ones formed in the skin between skin cells (called lipid bilayer). The lipid bilayer is like the "mortar" between our skin cells ("the bricks") and is super important for a healthy skin barrier and keeping water in the upper layers of the skin; great water-locking capability
- BGT™ POLG is more effective than lots of other emollients in promoting the recovery of damaged skin and improving rough skin conditions. It delivers exceptional skin feel in all skin care products. Similar to the structure of ceramide, it has excellent emollient properties
- Anti-inflammatory and soothing effects from phytosterols
- Excellent pigment dispersion and emulsion stability, which can effectively improve the feel of foundation and lipstick.



Natural, Mild and Safe Ingredients for Rinse-off Products

Product Trade Name: **BGT™ LS-30**

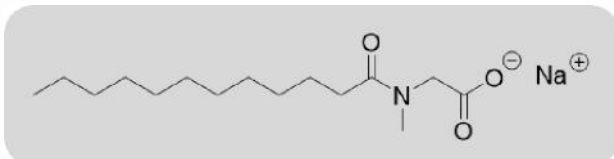
Product INCI Name: Sodium Lauryl Sarcosinate

CAS Number: 137-16-6

Property: Colorless to Pale Yellow Liquid Applications:

Facial Cleansers, Body Wash, Baby Products & Hair Care

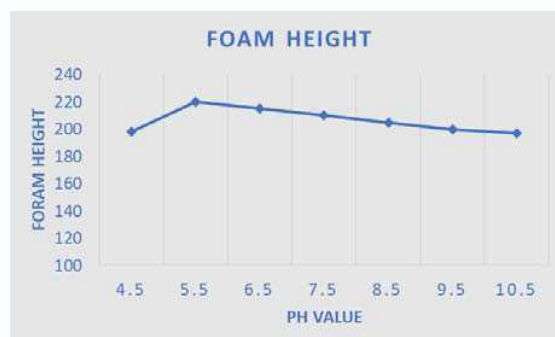
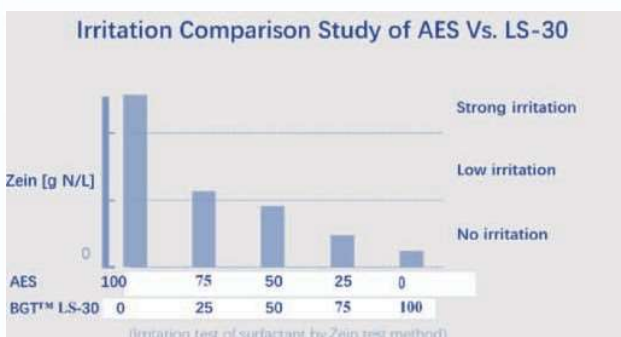
Usage Level: 5-30%



Product Performance and Functionalities:

BGT™ LS-30 is a plant-derived biodegradable water-soluble amino acid surfactant with an extremely mild nature. It is most often used in face and body cleansers and shampoos, but sometimes also used in leave-on products with the following attributes:

- It has a wide range of applications because of its good foamability in a wide pH range
- It can reduce irritation when combining with traditional surfactants, such as sodium lauryl sulfate and sodium lauryl ether sulfate.
- Because sulfate-free, BGT™ LS-30 is widely used in shampoos and can enhance the appearance and sensory feel of hair by improving hair body, suppleness, and sheen, especially for damaged hair
- This ingredient is non-irritating and non-sensitizing when applied to human skin.
- Most surfactants have poor resistance to hard water. The results show that sodium lauroyl sarcosinate has good resistance to hard water, good foam stability, and is less affected by hard water than other types of surfactants.



Natural Mild Functional Surfactants/Emulsifiers

Product Trade Name: **BGT™ AFSK**

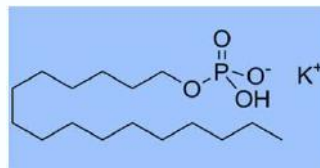
Product INCI Name: Potassium Cetyl Phosphate

CAS Number: 84861-79-0

Appearance: White to off-White Powder

Applications: Lotions, Creams, Suncare, Foundations, and Babycare

Suggest Usage Level: Principal Emulsifier – 1-3%; Co-emulsifier – 0.25-0.5%



Product Performance and Functionalities:

- BGT™ AFSK is excellent for baby, infant skin care due to its extremely mild and safe – it is a high performance and safe emulsifier for all baby care products
- It also can make water resistant foundation and sunscreens to improve the SPF value with great skin soft feels

Product Trade Name: **BGT™ MAP-H**

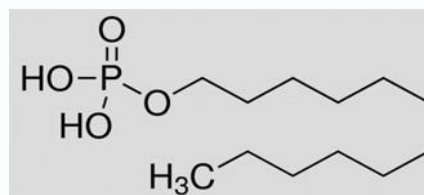
Product INCI Name: Lauryl Phosphate

CAS Number: 12751-23-4

Appearance: White to off-White Flakes

Applications: Facial Cleansers, Body Wash, Bath Products

Suggest Usage Level: Principal surfactant – 7-15%; Co-surfactant – 3-7%



Product Performance and Functionalities:

- BGT™ MAP-H has higher monoester content after special chemical process, it has very mild and smooth skin feel
- Can be used as a co-surfactant to reduce irritation and improve foam quality

Product Trade Name: **BGT™ MAEP**

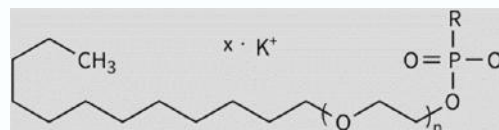
Product INCI Name: Laureth Phosphate

CAS Number: 68954-87-0 ; 58318-92-6

Appearance: Colorless to Pale Yellow Viscous Liquid

Applications: Facial Cleansers, Body Wash, Bath Products and Shampoos

Usage Level: Primary Surfactant – 10-25%; Co-Surfactant – 5-8%



Product Performance and Functionalities:

- BGT™ MSEP has been implanted with polyoxyethylene to make the product has better solubility and this is a fast-spreading emollient with good skin absorption and solvency property and stability at low temperature
- The product is great for clear, clean and transparent applications

Product Trade Name: **BGT™ GK-12**

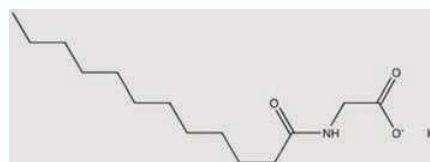
Product INCI Name: Potassium Lauryl Glycinate

CAS Number: 97632-95-6

Appearance: Colorless to Pale Yellow Liquid

Applications: Facial Cleansers, Body Wash, Bath Products and Shampoos

Suggest Usage Level: 5-30%



Product Performance and Functionalities:

- BGT™ GK-12 is a solution of potassium lauroyl glycinate, which is an amino acid surfactant
- The product is natural, highly safe, and very mild with excellent washing ability, foaming, and hard-water resistance; it's especially compatible with soap products and delivers foam quality and improved after-washing feels

Product Trade Name: **BGT™ MAP30K**

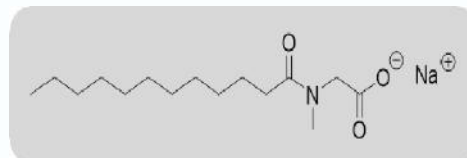
Product INCI Name Potassium Laureth Phosphate

CAS Number: 68954-87-0

Appearance: Colorless to Pale Yellow Transparent Liquid

Applications: Facial Cleansers, Body Wash, Baby Products & Hair Care

Suggest Usage Level: Principal Surfactant – 25-50%; Co-surfactant – 10-20%



Product Performance and Functionalities:

- BGT™ MAP30K is a solution of potassium laureth phosphate, it can be used in all rinse-off application
- The product is natural, highly safe, and very mild with excellent washing ability, foaming, and hard-water resistance; it's especially compatible with soap products and delivers foam quality and improved after-washing feels

Functional Specialty Emollient Esters

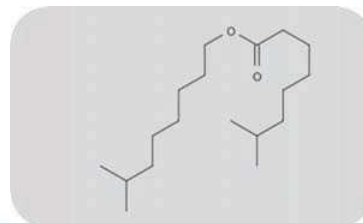
Product Trade Name: **BGT™ IN**

Product INCI Name: Isononyl Isononanoate

CAS Number: 55258-21-4

Appearance: Colorless to Pale Yellow Liquid

Applications: Skincare, Suncare, Bodycare and Color Cosmetics



Product Performance and Functionalities:

- This is an ultra-fast-spreading emollient with extremely low freeze point, low viscosity, excellent solubility, and compatibility with various ingredients such as silicone, mineral oils, plant oils, and all emollient esters.
- Excellent for sun care products, light lotion, bath oils, as well as in color cosmetics for helping the spreading colorants and improve skin feels

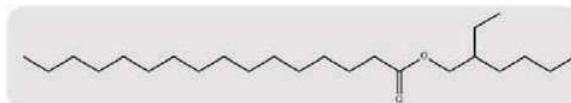
Product Trade Name: **BGT™ EHP**

Product INCI Name: Ethylhexyl Palmitate

CAS Number: 29806-73-3

Appearance: Colorless to Pale Yellow Liquid

Applications: Skincare, Suncare, Bodycare and Color Cosmetics



Product Performance and Functionalities:

- This is a fast-spreading emollient with good skin absorption and solvency property
- Excellent for sun care products due to its great compatibility with UV filters

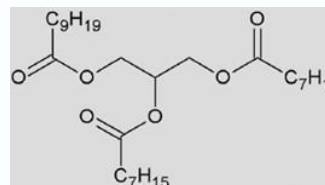
Product Trade Name: **BGT™ GTCC**

Product INCI Name: Caprylic/Capric Triglyceride

CAS Number: 65381-09-1

Appearance: Colorless Transparent & Odorless Liquid

Applications: Skincare, Suncare, Bodycare and Color Cosmetics



Product Performance and Functionalities:

- This is 100% natural emollient ester found in topical skin products; companies that claim that their products are “all-natural” or “organic” often contain this product.
- This is a medium spreading emollient with good dermatological compatibility and good solubility for liposoluble actives and sunscreens

Functional Specialty Emollient Esters / Humectants

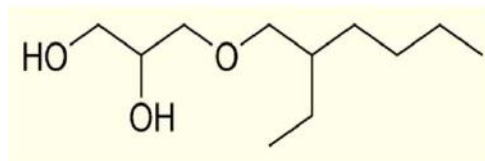
Product Trade Name: **BGT™ EHG** Product INCI Name:

Ethylhexylglycerin CAS Number: 70445-33-9

Appearance: Clear Colorless Liquid Applications:

All PC and cosmetic products

Usage Level: 0.5-1%



Product Performance and Functionalities:

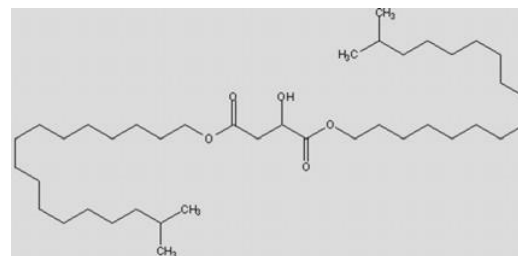
- BGT™ EHG is a multi-functional ingredient, not only an emollient which delivers good spreadability but also, it is widely used antiseptic synergist with a moisturizing effect; and can give the formula a soft and non-sticky skin feel
- It can improve the broad spectrum of many traditional preservatives (such as phenoxyethanol). It's an excellent substitute for parabens
- BGT™ EHG reduces the surface tension of microbial cell walls and reduces the activity of bacteria to further make the antimicrobial system more effective and in the meantime it also soft and moisturizing skin.

Product Trade Name: **BGT™ DM**

INCI Name: Diisostearyl Malate

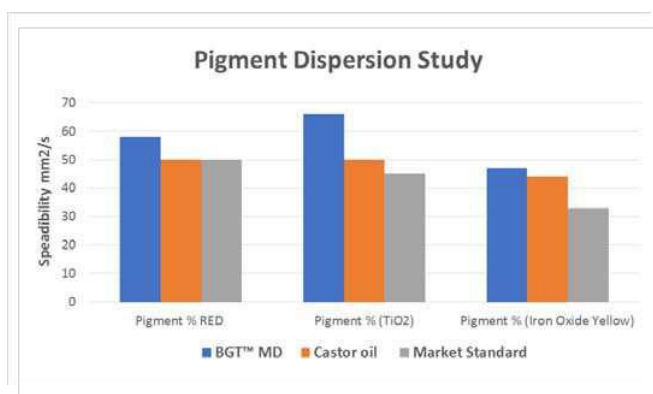
CAS Number: 67763-18-2

Appearance: Colorless to Pale Yellow Liquid Applications: Color Cosmetics and Skincare



Product Performance and Functionalities:

BGT™ DM is a very effective pigment dispersant and binder which has the excellent ability for preventing from sweating of lipsticks and foundations. It can also be used as a substitute for castor oil and is recommended for creams, milk lotions, lipsticks, lip glosses, eye shadows, etc.



Highly Efficient Depilatory Actives and Stabilizers

Product Trade Name: **BGT™ CA-TG**

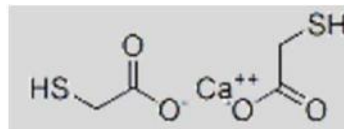
INCI Name: Calcium Thioglycolate

CAS Number: 814-71-1

Appearance: White Crystal Powder

Applications: Depilatory Cream / Lotion and etc.

Suggest Usage Level: 4-8%



Product Performance and Functionalities:

- BGT™ CA-TG is a highly effective depilatory active which has the active content > 99% This product functions by softening and dissolving the keratin (a protein that gives strength to hair) in the hair shaft to
 - further remove the un-wanted hairs.
- A depilatory product can be either formulated as a gel, a lotion, or a cream; it is the most commonly
- used depilatory agent for the beauty industry
- It is highly safe, non-toxic, and non-irritation to skin

Product Trade Name: **BGT™ SDPPSD**

INCI Name: Sodium Diethylenetriamine Pentamethylene

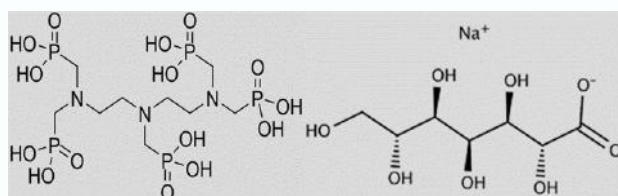
Phosphonate (and) Sodium Glucoceptate

CAS Number: 022042-96-2/13007-85-7

Property: White Powder

Applications: All PC products especially highly unstable system such as depilatory etc.

Suggest Usage Level: 0.05-1.0%



Product Performance and Functionalities:

- BGT™ SDPPSD is a highly efficient product stabilizer and prevents products from color degradation and oxidation, as well as chemical decomposition
- The inhibition of the formation of peroxide complexes is due to the synergistic effect of sodium diethylenetriamine pentamethylene phosphonate and sodium glucoceptate
- BGT™ SDPPSD can also chelate with free metal ions to provide long-term stability of the final products; this product has great antioxidant chelating capabilities
- It is easily soluble in water, can be used in a wide pH range, and has excellent compatibility with other ingredients



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