

RITA CORPORATION

RITAMULSE SCG



2023

**A complete, balanced, all-natural
Emulsifier blend**



RITA
CORP

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GENERAL PRODUCT LISTING



Methyl Glucose Esters



Acritamers - Carbomers



Emollients



Natural Butters



Emulsifiers



Ritamulse SCG - natural emulsifier



Glycol and Glycerol Esters



Cationic Compounds, Conditioning
and Styling Aids



Ritafactants with Lactylate - sulfate
free surfactants



Ritafactants - sugar and amino
acids based surfactants



Ritafactants - Anhydrous surfactant
blends



Ritapan - Panthenol



Natural Oils



Natural Butters



Lanolin and Lanolin Derivatives

RITAMULSE SCG

Ritamulse SCG incorporates a pre-balanced blend of plant-based waxes, fatty alcohols, and lactylates. This primary emulsifier efficiently blends natural oils, esters, and silicones into the water phase. What makes this blend unique is the Sodium Stearoyl Lactylate which is a more oil soluble lactylate with a higher molecular weight. This helps to increase the emulsification ability of the sodium salt of the acyl lactylates. Rich, creamy emulsions can easily be formed with the ability to hold > 10% oils and esters.

PHYSICAL PROPERTIES

INCI NAME

Glyceryl Stearate (and) Cetearyl Alcohol
(and) Sodium Stearoyl Lactylate

APPEARANCE

Off white, waxy flakes

ACID VALUE

20 Max

SAPONIFICATION VALUE

125-150

Superb Substantivity

Lactylates have surface affinity for various substrates, specifically skin and hair. They can bind to the proteins found on the surface, and detailed work utilizing electron microscopy and radio tracer tests show significant lactylate binding to the proteins. The binding of the acyl lactylate to the application surface provides a silky, soft feel that will last all day!

Excellent Moisturizer

Lactylates hold in moisture well, slowing the rate of evaporation from the skin's surface. Further studies have focused on the moisturization effect with lactylates. Water absorption has been tested on different samples with the ability to hold high residuals levels of moisture at > 85%. RITAMULSE SCG's lactic acid and fatty acid components boost your skin's already naturally found moisturizing complex.

Mild, Plant Based Components

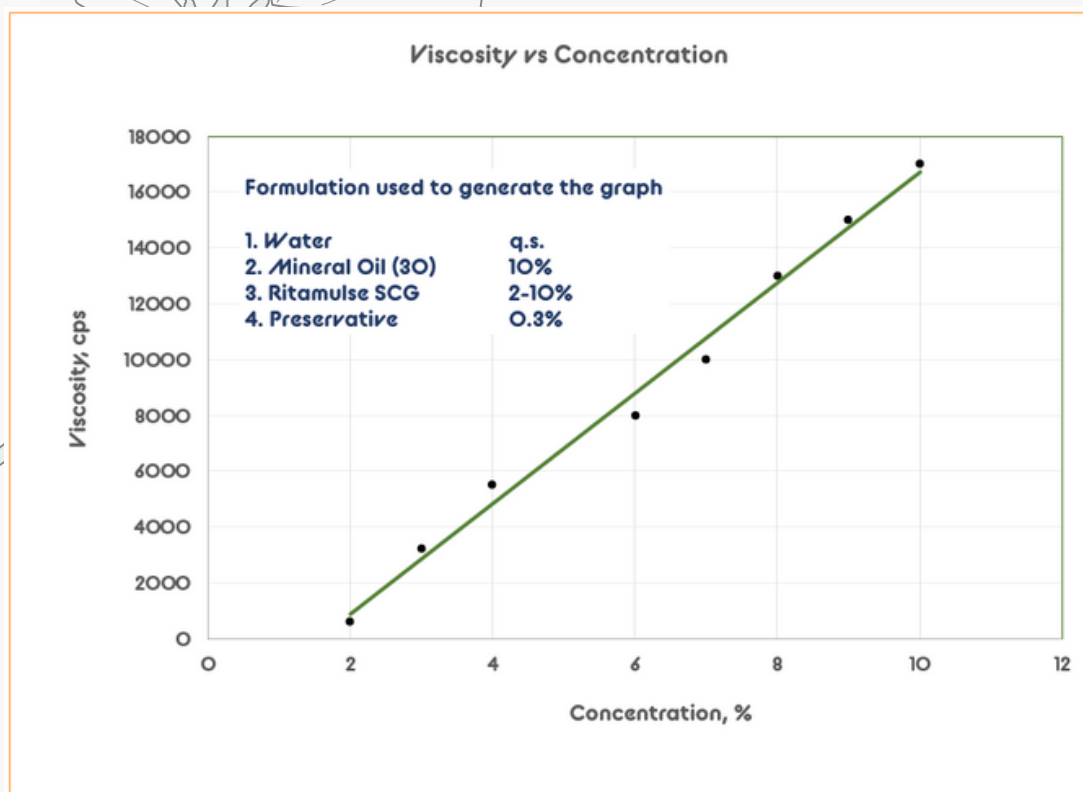
RITAMULSE SCG is extremely mild/ non-irritating, making it the perfect multi-functional emulsifier. It can be used in a variety of cosmetic products including creams, lotions, conditioners, and sticks. It can also be used effectively in automotive and industrial products. 100% Vegan.

RITAMULSE SCG

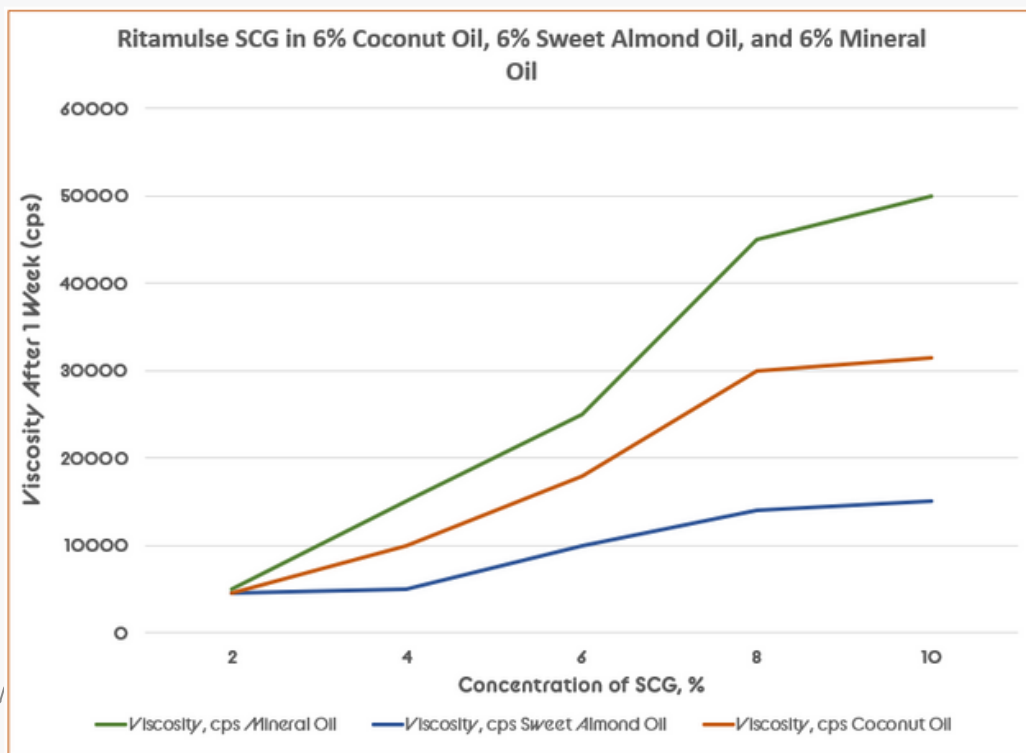
Ritamulse Applications Summary

The acyl lactylates are surface active emulsifying agents which are used in many cosmetic creams and lotions as well as Industrial products. They can be viscosity enhancers and emulsion stabilizers. Their substantive properties and water holding capabilities make them excellent moisturizers. Their lactic acid and fatty acid components are both found in the skin's natural moisturizing factor (NMF). Their mildness and low eye sting properties make them excellent ingredients for facial care products.

Build your own viscosity curve (see graph below) for your formulation and easily extrapolate the correct concentration of Ritamulse SCG that you need to achieve a specific viscosity for your formulation.



RITAMULSE SCG



CLAIMS

Vegan
Biodegradable
Plant derived
Moisturizing
Mild
Non-irritating

APPLICATIONS

Hand and body creams and lotions
Moisturizers
Cleansers and liquid soaps
Bar soaps and syndets
Night creams
Baby lotions
Anti-wrinkle creams
Barrier creams
Tanning oils
Suntan lotions
Bath oils
Ointments
Lip Products
Home and Industrial Products

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For literature, prototypes and technical information: rdlab@ritacorp.com



Ritamulse SCG

NATURAL

Hand and Body Lotion

DI Water	Q.S. to 100%
Ritamulse SCG Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate	8.00%
Shebu Refined Butyrospermum Parkii (Shea) Butter	3.00%
Simchin Refined Simmondsia Chinensis (Jojoba) Seed Oil	11.00%
Luxtra Light Isohexadecene	2.00%
Ritalac NaL Sodium Lactate	2.00%
Phenoxyethanol Phenoxyethanol	1.00%

STRETCH MARK

Cream

DI Water	Q.S. to 100%
Ritamulse SCG Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate	8.00%
Esaflo HM22 C18-22 Hydroxyalkyl Hydroxypropyl Guar	0.15%
Shebu Refined Butyrospermum Parkii (Shea) Butter	5.00%
Cocoa Butter NF Theobroma Cacao (Cocoa) Seed Butter	3.00%
Rita HA C-1-C Sodium Hyaluronate	5.00%
Vitamin E Acetate Tocopherol Acetate	1.00%
Ritapan D Panthenol	1.00%
QUIDITAT SRC-OP Hypnea Musciformis Extract, Gellidiera Acerosa Extract, Cocos Nucifera	1.00%
Ritasil DM300 cst Cocoon Fruit Extract	1.00%
Phenoxyethanol Dimethicone	1.00%
Phenoxyethanol Phenoxyethanol	1.00%

NATURAL

Conditioner

DI Water	Q.S. to 100%
Rita Glycerin, USP Glycerin	0.10%
Ritamulse SCG Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate	4.00%
Rita BTAC 228 Behentrimonium Chloride	2.00%
Cetyl Esters NF Cetyl Esters	1.00%
Rita Coconut Oil 76 Cocos Nucifer (Coconut) Oil	3.00%
Ritaloe 1X Aloe Barbadensis Leaf Juice	1.00%
Ritapan D Panthenol	0.50%
Phenoxyethanol Phenoxyethanol	1.00%

NIGHT

Cream

DI Water	Q.S. to 100%
Esaflo HM22 C18-22 Hydroxyalkyl Hydroxypropyl Guar	0.20%
Glycerin, USP Glycerin	1.50%
Ritamulse SCG Glyceryl Stearate, Cetearyl Alcohol, Sodium Stearoyl Lactylate	8.00%
Mango Butter Mangifera Indica (Mango) Seed Butter	5.00%
Luxtra Rich C32-54 Isoalkane	3.00%
Amitose R Dihydroxypropyl Arginine HCl	1.00%
Phenoxyethanol Phenoxyethanol	1.00%



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