

GRANSIL SBG-11

SOFT NON-COMEDOGENIC SHEA BUTTER ELASTOMER SYSTEM

PERFORMANCE ADVANTAGES OF GRANSIL SBG-11:

- Soft and creamy-emollient skin feel
- Barrier repair and moisturizing properties
- Suitable for normal, dry and sensitive skin
- Wrinkle reduction and skin regeneration
- Provides enhanced aesthetics to formulations
- Delivers excellent non-tacky, non-oily, smooth characteristics
- Stable delivery vehicle for active materials
- Elastomer network offers sebum absorption and control
- Transformation into non-greasy/ non-glossy finish with a light powdery after feel

PERSONAL CARE CATEGORIES

- Skin care, color cosmetics, sun care and body care

SAFETY PROFILE

- Non-irritating, non-sensitizing, non-comedogenic

REGULATORY APPROVAL

- Global status, no restrictions

INCI: Dimethicone (and) Polysilicone-11 (and) Butyrospermum Parkii (Shea) Butter

A unique silicone elastomer system containing an advanced shea butter for a variety of personal care, skin care, and color cosmetic applications. Shea butter, a skin super emollient, is well-known for its moisturizing, calming and skin smoothing properties. With shea butter interspersed within an elastomer network **GRANSIL SBG-11** offers unique sensory and performance properties compared to standard silicone elastomer materials. **GRANSIL SBG-11** imparts a soft and creamy-emollient skin feel upon application while delivering a lasting barrier function. Most importantly **GRANSIL SBG-11** mitigates the potential for comedogenicity as compared to harder butters which can clog skin pores. A multi-functional ingredient for body butters, creams, lotions, makeup, and anhydrous formulations **GRANSIL SBG-11** provides a rich skin feel in combination with extended playtime during application. The optimized skin-temperature melting action of this shea butter elastomer system offers skin softening and results in the most caring and luxurious formulations.



GRANSIL SBG-11+ WATER-COATED SILICONE TECHNOLOGY = GRANSIL SiW-038

INCI: Dimethicone (and) Polysilicone-11 (and) Butyrospermum Parkii (Shea) Butter (and) Water (and) Glycerin (and) Decyl Glucoside

The simple (and effective) way to load silicone elastomers into water-based formulations, **GRANSIL SiW ELASTOMER GELS** are the vehicle of choice for creating personal care products. Technically **GRANSIL SiW ELASTOMER GELS** offer formulators the ideal opportunity for loading high levels of Polysilicone-11® elastomer into water-based gel structures with minimal use of emulsifiers (at levels below 0.5%), and by cold processing methods. These stable formulations achieved with such low levels of emulsifiers also serve as excellent delivery-bases for active ingredients.



PINA COLADA SLEEP CREAM

Phase	Ingredient	INCI	%
A	DEIONIZED WATER	Water	46.85
	CARBOPOL ULTREZ 10 POLYMER	Water & Carbomer	0.30
	TEA, 99%	Triethanolamine	0.30
	NATROSOL 250 HHR, 2% AQ SOL.	Water & Hydroxyethylcellulose	2.00
	GLYCERINE	Glycerin	1.60
	PROCOL SA-2	Stearth-2	1.00
	YOUTH 360 BCR*	Water & Boswellia Serrata Extract & Centella Asiatica Extract & Betula Alba Bark Extract & Polygonum Cuspidatum Root Extract & Phenoxyethanol & Sodium Benzoate	5.00
	GRANPOWDER QSC	Polymethylsilsesquioxane/Silica Crosspolymer	2.00
	PINA COLADA FRAGRANCE	Fragrance	0.40
	B	PROTACHEM OP	Octyl Palmitate
PROTACHEM CTG		Caprylic/Capric Triglyceride	5.40
PROTASORB S-20		Polysorbate 60	2.20
JEECHEM GMS-165		Glyceryl Stearate & PEG-100 Stearate	1.10
PROTACHEM CS-70		Cetearyl Alcohol	2.20
GRANSIL VX-418		Bis-Stearyl Dimethicone	5.70
GRANSIL SBG-11		Dimethicone & Polysilicone-11 & Butyrospermum Parkii (Shea) Butter	15.00
VITAMIN E ACETATE		Tocopheryl Acetate	0.25
EUXYL PE 9010		Phenoxyethanol & Ethylhexylglycerin	1.00
Total:			100.00

Procedure:

1. Combine Phase A in the main kettle and homogenize at 60-70° C until uniform.
2. Combine Phase B in a side kettle and mix at 60-70° C until uniform.
3. Add Phase B to Phase A while homogenizing. Mix until uniform.

*BCR (www.BCRingredients.com)

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BUTTERY CREAM FOUNDATION

Phase	Ingredient	INCI	%	
A	DEIONIZED WATER	Water	27.30	
	BUTYLENE GLYCOL	Butylene Glycol	10.00	
	TWEEN 20	Polysorbate 20	0.20	
	JEECIDE CAP-5	Phenoxyethanol & Caprylyl Glycol & Potassium Sorbate & Water & Hexylene Glycol	1.00	
	VEEGUM HV	Magnesium Aluminum Silicate	1.00	
	KELTROL	Xanthan Gum	0.10	
	CMC 7HF	Sodium Carboxymethylcellulose	0.10	
	B	DEIONIZED WATER	Water	5.00
		SODIUM CHLORIDE	Sodium Chloride	0.80
	C	GRANSIL SBG-11	Dimethicone & Polysilicone-11 & Butyrospermum Parkii (Shea) Butter	15.00
GRANSURF 50C-HM		Dimethicone & PEG/PPG-18/18 Dimethicone	3.00	
GRANSURF 90		Cetyl PEG/PPG-10/1 Dimethicone	3.00	
ALCOLEC BS		Lecithin	1.00	
DIMETHICONE, 5 CST		Dimethicone	10.00	
BENTONE GEL ISD V		Isododecane & Distearidimonium Hectorite & Propylene Carbonate	7.00	
SYNCROWAX HGLC		C18-36 Acid Triglyceride	0.50	
CETIOL LC		Coco-Caprylate/Caprate	3.00	
D		SA/BS-D-TSR	Titanium Dioxide & Bis-Stearyl Dimethicone & Dimethicone	5.50
		SA/BS-D-M-102	Mica & Dimethicone & Bis-Stearyl Dimethicone	4.75
	SA/BS-D-Y-339001	Iron Oxide & Bis-Stearyl Dimethicone & Dimethicone	1.20	
	SA/BS-D-R-338001	Iron Oxide & Bis-Stearyl Dimethicone & Dimethicone	0.45	
	SA/BS-D-B-337001	Iron Oxide & Bis-Stearyl Dimethicone & Dimethicone	0.10	
	Total:			100.00

Procedure:

1. Weigh Phase A in the side kettle equipped with marine type propeller. Sprinkle the gums under the mix. Heat up to 75-80° C. Mix until uniform.
2. Weigh Phase B in a side kettle. Mix. When uniform add to Phase A.
3. Weigh Phase C in the main kettle equipped with homogenizer. Heat up to 80-85° C. Mix until uniform.
4. Micro pulverize Phase D and add to the main kettle.
5. When at temperature add Phase AB to CD and homogenize for 20 minutes.
6. Using side sweep agitation cool down to room temperature.

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VANILLA ICE BODY MOISTURIZER

Phase	Ingredient	INCI	%
A	DEIONIZED WATER	Water	44.50
	BIOWAVE BCR*	Water & Propanediol & Polyglutamic Acid & Phenoxyethanol	1.00
	QUINTESSENCE BCR*	Water & Wine Extract (White) & Saccharomyces Lysate Extract & Phenoxyethanol & Sodium Benzoate	1.00
	GRANPOWDER QSC	Polymethylsilsesquioxane/Silica Crosspolymer	2.00
	CARBOPOL ULTREZ 10 POLYMER, 2% AQ SOL.	Water & Carbomer	30.00
	TEA, 99%	Triethanolamine	0.60
	TWEEN 20	Polysorbate 20	0.50
	PLANTAREN 2000 N	Decyl Glucoside	0.30
	JEECIDE CAP-5	Phenoxyethanol & Caprylyl Glycol & Potassium Sorbate & Water & Hexylene Glycol	1.00
	B	ARISTOFLEX AVC	Ammonium Acryloyldimethyltaurate/VP Copolymer
C	GRANSIL SIW-038	Dimethicone & Polysilicone-11 & Butyrospermum Parkii (Shea) Butter & Water & Glycerin & Decyl Glucoside	5.00
	COCONUT OIL	Cocos Nucifera (Coconut) Oil	2.00
DIMETHICONE, 5CST	Dimethicone	8.00	
GRANSIL EP-LS	Polysilicone-11 & Laureth-12	3.00	
CETYL ALCOHOL	Cetyl Alcohol	0.75	
D	ORCHIDIA VANILLA FRAGRANCE, ORC0802131	Fragrance	0.05
	Total:		

Procedure:

1. In the main kettle, sprinkle QSC into water. Mix with side sweep.
2. Once dispersed, add the other Phase A ingredients. Sprinkle Phase B in. Heat to 65-70° C.
3. Combine EP-LS and Dimethicone 5CST in a side kettle and mix with a propeller.
4. Once gel-like, add the other Phase C ingredients. Heat to 75° C.
5. When Phase AB and C are at proper temperature, add Phase C to Phase AB. Mix for 15-20 minutes.
6. Add Phase D and cut the heat. Cool down with fast mixing.

*BCR (www.BCRingredients.com)

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BUTTER REPAIR SERUM

Phase	Ingredient	INCI	%
A	DEIONIZED WATER	Water	48.95
	BUTYLENE GLYCOL	Butylene Glycol	10.00
	COFFEINE	Caffeine	1.00
	CARBOWAX PEG 300	PEG-6	3.00
	RICE BRAN BT*	Water & Oryza Sativa (Rice) Bran Extract & Phenoxyethanol & Sodium Benzoate	1.00
	N-ACETYL-D-GLUCOSAMINE	N-Acetyl -D-Glucosamine	0.50
	SODIUM HYALURONATE, 2% AQ SOL.	Water & Sodium Hyaluronate	5.00
	DISODIUM EDTA	Disodium EDTA	0.05
	ASCORBYL GLUCOSIDE	Ascorbyl Glucoside	0.20
	SODIUM METABISULFITE	Sodium Metabisulfite	0.10
TWEEN 20	Polysorbate 20	0.20	
PLANTAREN 2000 N	Decyl Glucoside	0.10	
TRIS AMINO	Tromethamine	0.30	
JEECIDE CAP-5	Phenoxyethanol & Caprylyl Glycol & Potassium Sorbate & Water & Hexylene Glycol	1.00	
B	GRANSIL SIW-038	Dimethicone & Polysilicone-11 & Butyrospermum Parkii (Shea) Butter & Water & Glycerin & Decyl Glucoside	25.00
	GRANACTIVE RETINOID	Dimethyl Isosorbide & Hydroxypinacolone Retinoate	1.00
	PHYTOLANE LS	Olive Squalane	1.00
	ARISTOFLEX AVC	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.10
	SIMULGEL 600	Acrylamide/Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 80	1.50
	Total:		

Procedure:

1. Weigh Phase A in the main kettle equipped with side sweep agitation. Mix until homogenous.
2. Weigh Phase B in a side kettle and mix until homogenous.
3. Add Phase B to Phase A and mix with side sweep until homogenous.
4. Perform a 5 minute finishing step on the homogenizer.

*BCR (www.BCRingredients.com)

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