

Repoly 625

High Natural Index
Emulsifier

Reachin
Chemical

2023.12.13

More approachable formulas
More natural ingredients

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CHAPTER ONE

01

PRODUCT FEATURES

As a unique and highly natural source emulsifier, this is the horn for Reachin Chemical
to actively incorporate green natural chemical ingredients

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Product Features

Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer & Coco-Caprylate/Caprates & Polyglyceryl-10 Laurate

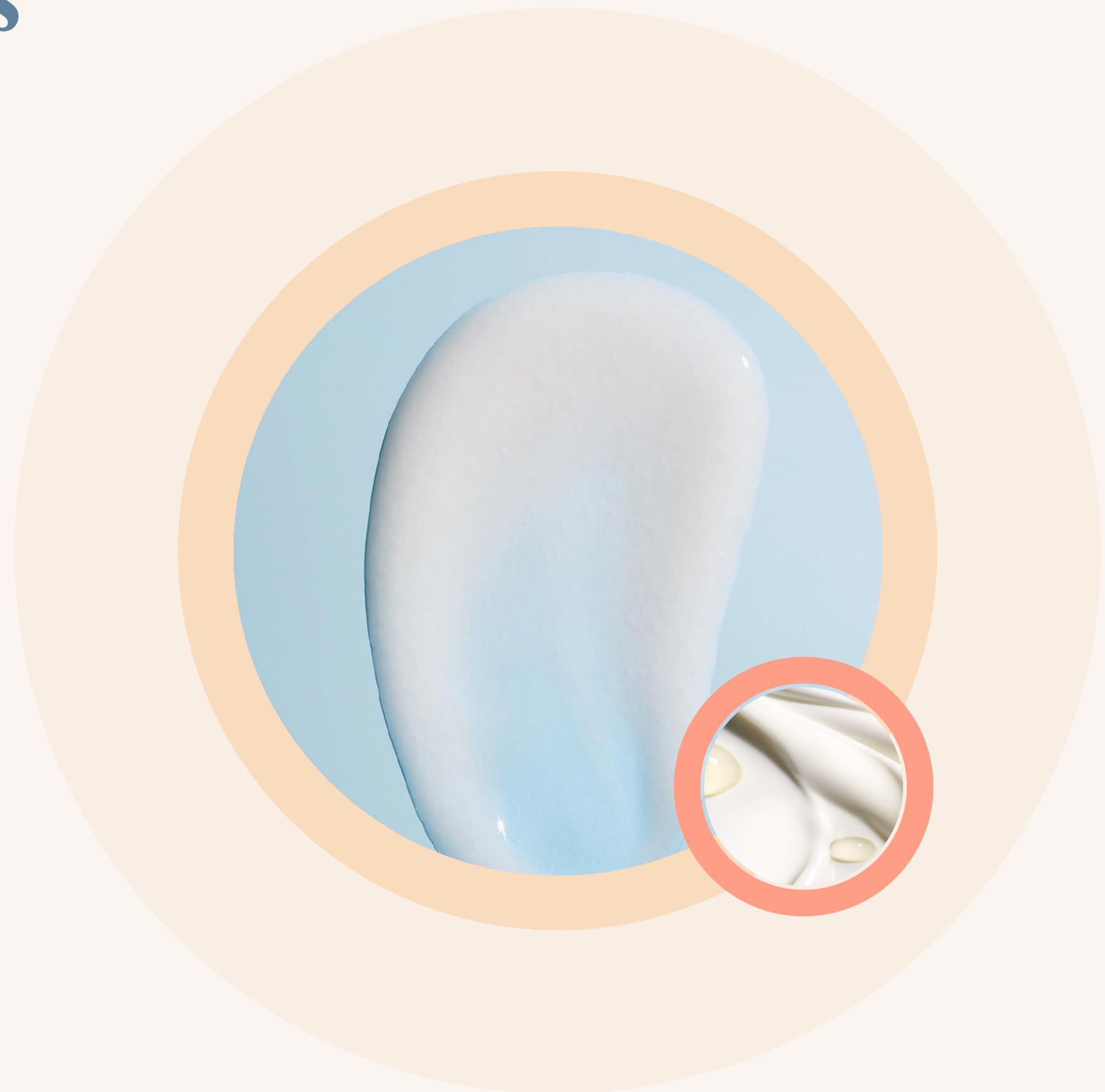
As a multifunctional ingredient (rheology modifier, emulsifier, thickener, stabilizer), **Repoly 625** can not only be compatible with various oils and act as a primary emulsifier in formulations, but also serve as a co-emulsifier. Additionally, it can be incorporated into formulations either cold or hot.

70% of natural sources are more in line with the future market demand for green health.

suitable for:

Body care products, facial care products, hair care products, sunscreens, makeup, creamy gel, foundation make-up, formulas containing (polar solvents, polyols, silicone oil, etc.).

Dosage: Main emulsifier 3.0-6.0%; Auxiliary emulsifier 0.7-2.2%



Product Features

Compatibility

emulsify various oils and fats,
disperse pigments

Multifunctional

Thickening, stability, and texture
improvement

70%
natural sources

Conforms to ISO16128 and other global
regulations in cosmetics

Superior thickening and stabilizing
performance in cold/hot process

**Rapid
swelling**

No residue

No harmful residues, more
reassuring to use

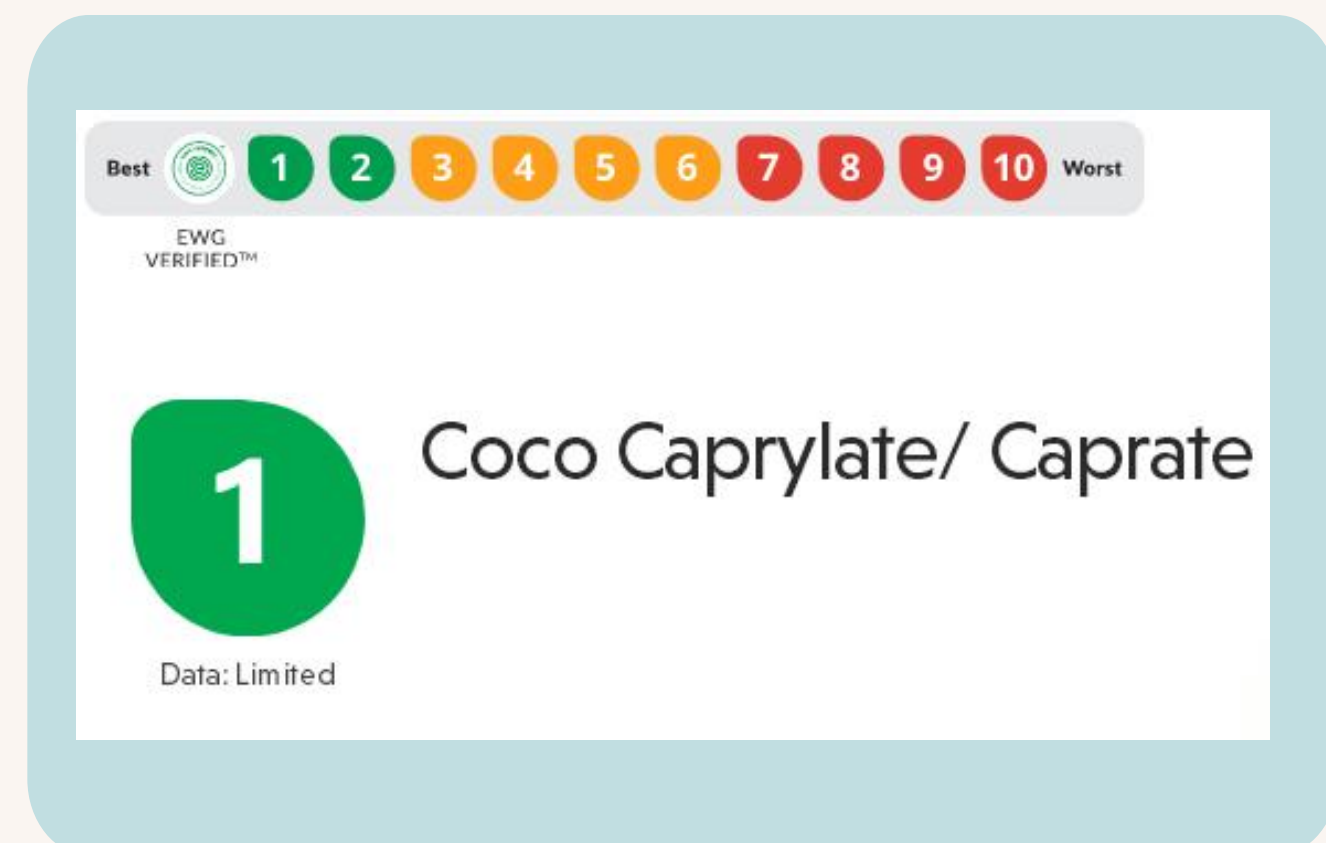
Moisture

fresh skin feeling with excellent
moisturizing properties

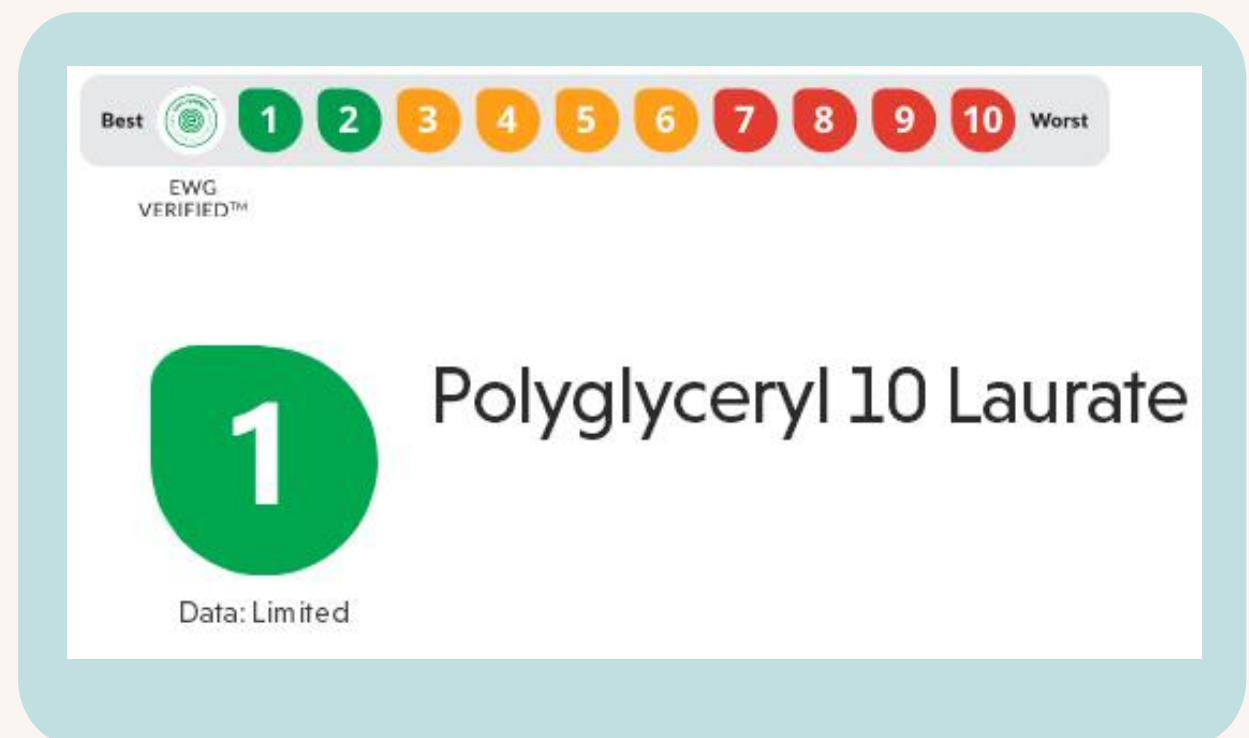
Product Features



1



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The safety evaluation of the INCI component of Repoly 625 is all 1 point, which is the safest evaluation.

(Data sourced from EWG)

4

CHAPTER TWO

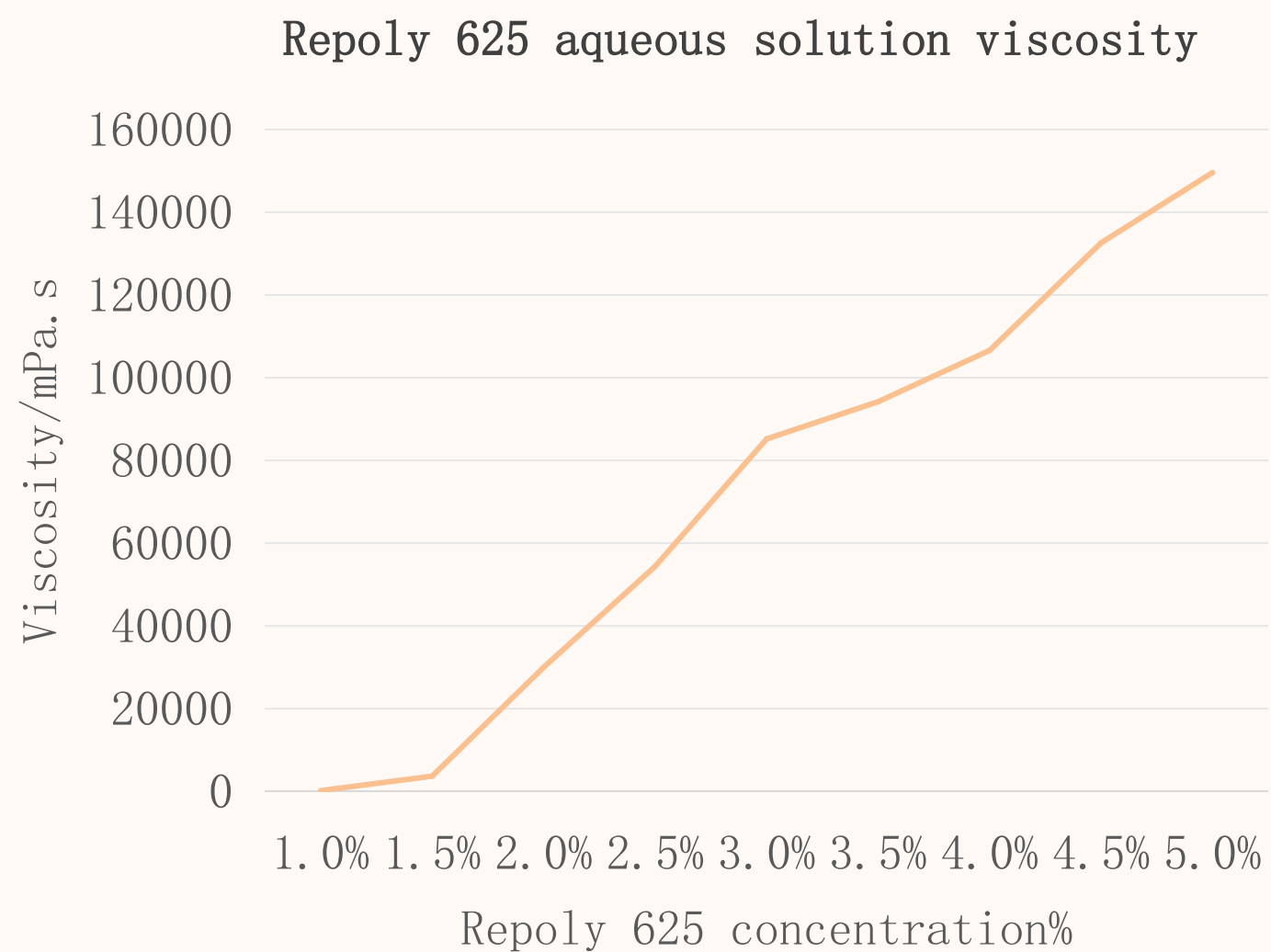
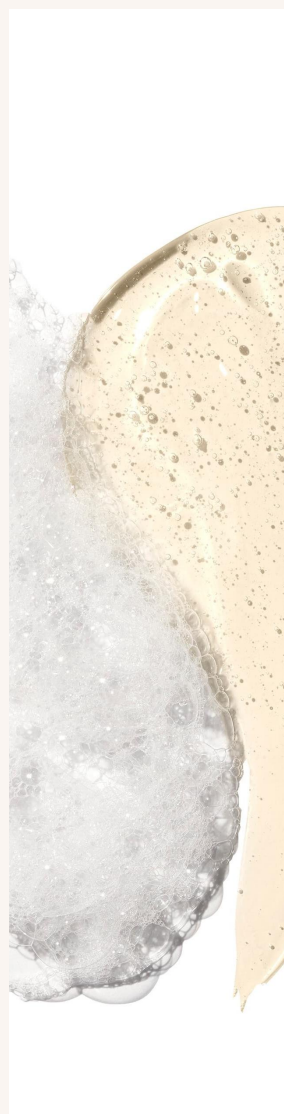
02

PERFORMANCE TEST

Pursuing naturalness does not mean giving up performance. We strive to do both at the best and always strive for progress

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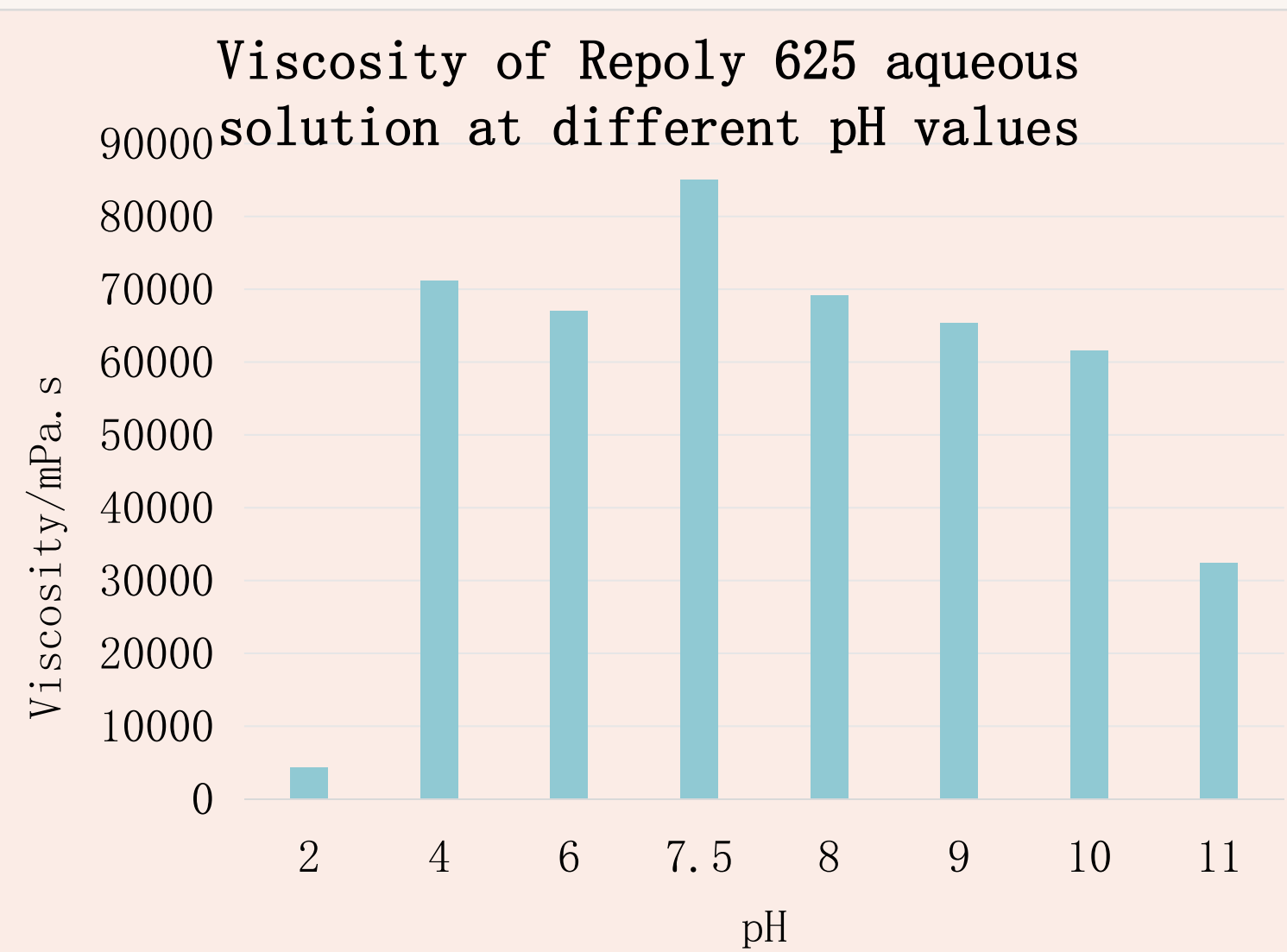
Performance Tests



Add different amounts of Repoly 625 into water and stir evenly to prepare aqueous solutions of different concentrations. After leaving it for a period of time, test its viscosity

Repoly 625 has a good thickening effect

Performance Tests

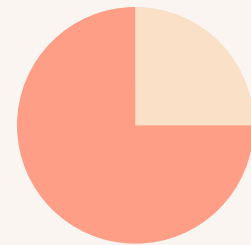


Add 3% Repoly 625 to aqueous solutions of different pH values, stir well, let it stand for a period of time, and then test its viscosity

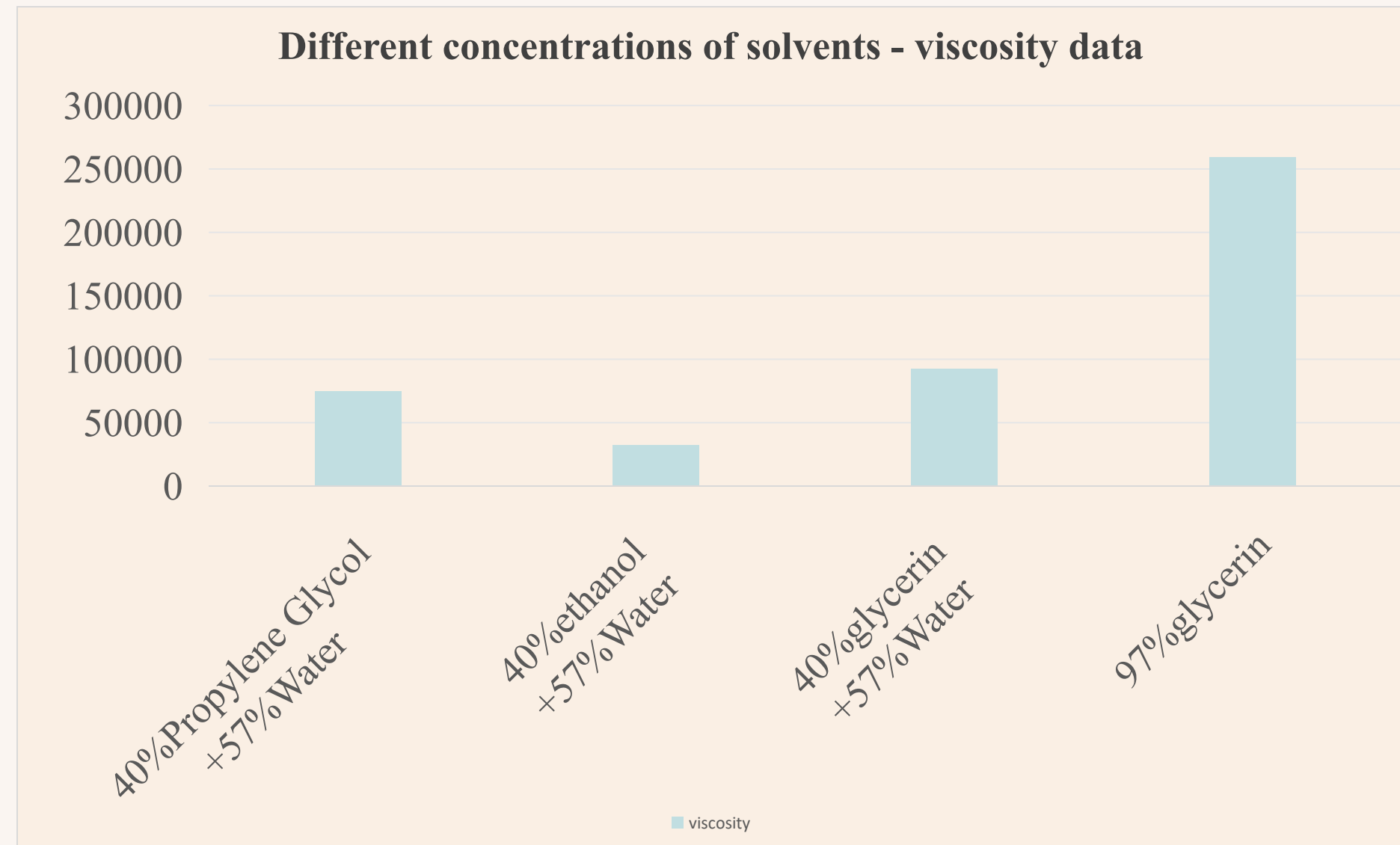
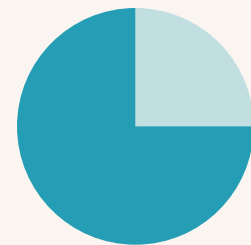
Repoly 625 maintains good viscosity within the pH range of 4-10, with a neutral pH value for optimal viscosity

Performance Tests

Select three common polyol solvents, propylene glycol, ethanol, and glycerol, as carriers to test the thickening ability of Repoly 625 aqueous solution at a concentration of 3%

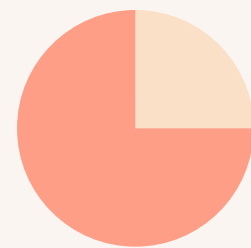


Repoly 625 is suitable for use in formulas containing partial ethanol, propylene glycol, and glycerol

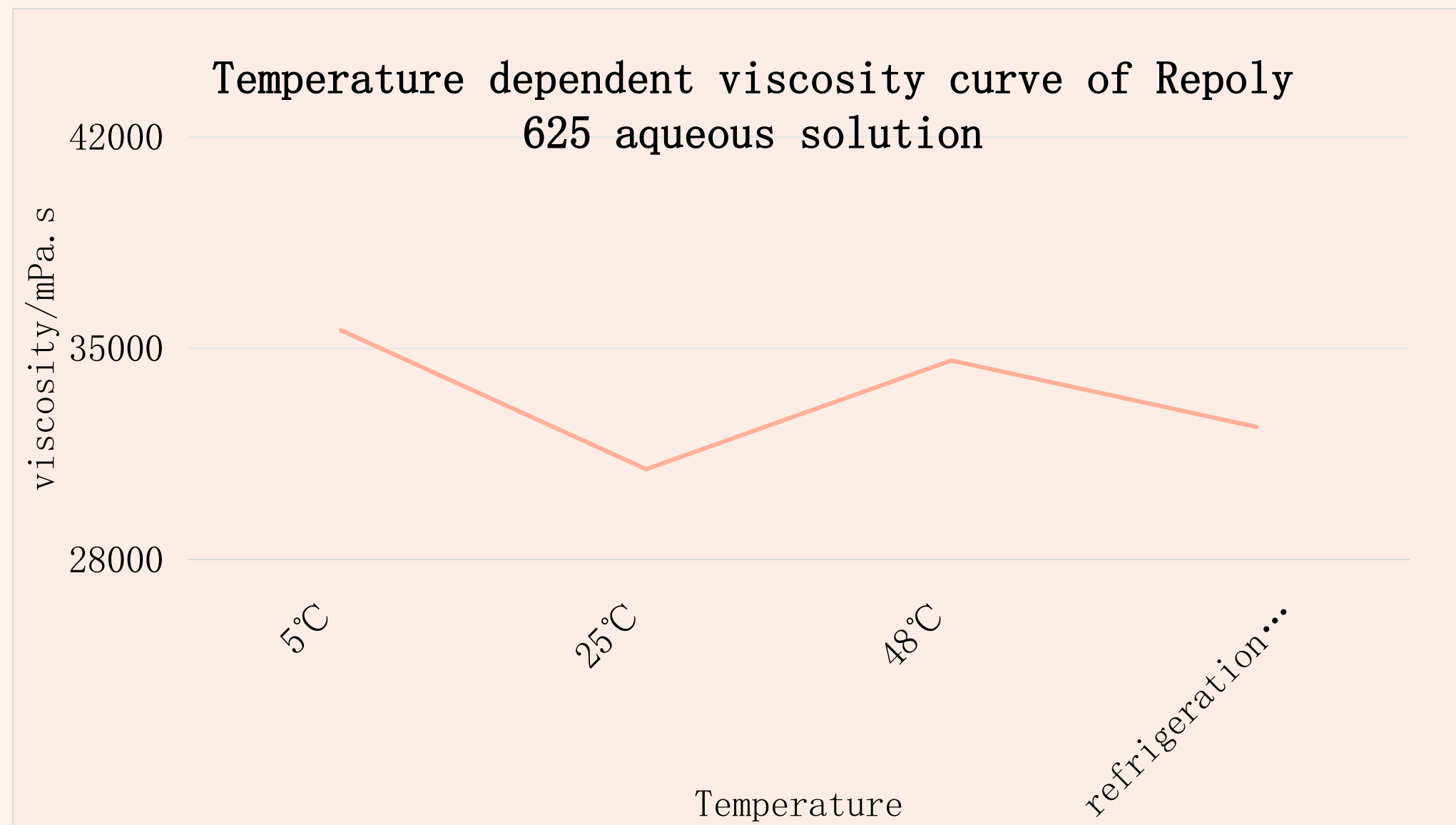
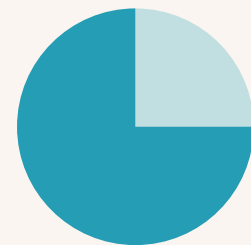


Performance Tests

Divide the 2% concentration of Repoly 625 aqueous solution into four groups and let it stand at different temperatures for 24 hours before measuring its viscosity:



The temperature difference has little effect on the viscosity of 625, and the viscosity is also maintained relatively well in extreme environments



CHAPTER THREE 03

REFERENCE FORMULA

As an exclusive emulsifier researched by Reachin Chemical, we have specially designed a formula suitable for skincare for this new product, with significant effects

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Reference Formula

- 1.Care for the skin, fade wrinkles, deeply moisturize
- 2.moisturizing and non greasy skin feeling, clear and easily absorbed

- 1.Add part A into vessel 1 and heat to 60-70°C with stirring until the solids dissolved.
- 2.Add part B into vessel 2 and heat to 60-70°C with stirring until uniform.
- 3.Add part B into part A with stirring until uniform and then homogenize for 4 minutes.
- 4.Add part C into the vessel with stirring until uniform.
- 5.Cool to 40°C, add the remaining ingredients with stirring until uniform.

01 Hexapeptide anti-wrinkle cream

	Ingredient	Percentage	Trade Name	Function
A	Water	To 100		Solvent
	Butylene Glycol	3.0		Moisturizer
	Xanthan gum	0.1		Thickener
	Sodium Polyglutamate	0.05	Reaqua PGA	Moisturizer
	Sodium Hyaluronate	0.05	Reaqua HA	Moisturizer
	Glycerin	2.0		Moisturizer
B	Cetearyl Alcohol & Cetearyl Glucoside	2.0	Resense 68	Emulsifier
	Cetearyl Alcohol	4.0		Emulsifier
	Caprylic/capric Triglyceride	5.0	Regrease GTCC	Emollient
	Dicaprylyl carbonate	3.0		Emollient
	(Butyrospermum Parkii(shea) butter)	1.0		Emollient
	Glyceryl Stearate	1.0		Emulsifier
	Coco-Caprylate/Caprates	3.0	Regrease 810C	Emollient
C	Hydroxyethyl Acrylate /Sodium Acryloyldimethyl Taurate Copolymer & Coco-Caprylate/Caprates& Polyglyceryl-10 Laurate	1.0	Repoly 625	Emulsifier
D	Acetyl hexapeptide-8	3.0	Repeptide AGE	Anti-wrinkle
	Tocopherol	1.0		Antioxidant
	Beta-Glucan	3.0	Reactive Oat Beta-Glucan	Moisturizer
	Fragrance	0.1		Fragrance
	Caprylhydroxamic Acid & 1,2-Hexanediol & Propylene Glycol	1.0	ReantiCHP	Preservative
	0.1% Lemon yellow	0.2		Pigment

Reference Formula

- Excellent smearability, not greasy
 - Refreshing skin feeling, with moisturizing factors effectively activating the skin
- 1 Add part C to container 1, heat to 40-45 °C, and stir until evenly dissolved.
2. Add D to container 1 and stir evenly
3. Add parts A and B to container 2 and stir evenly until the solid dissolves
4. Slowly add the material in container 2 to container 1 and stir quickly until evenly distributed

02 Limnanthes Alba Seed Brightening Skin Muscle Base Serum

	Ingredient	Percentage	Trade Name	Function
A	Water	To 100		Solvent
	Carbomer	0.15	Repoly 180	Thickener
B	Propanediol	2.0		Moisturizer
	Sodium Stearyl Glutamate	0.1	Remild SG	Emulsifier
	Arginine	0.15		pH Regulator
	Glycerin	3.0		Moisturizer
	Xanthan gum	0.1		Thickener
	Dipotassium Glycyrrhizate	0.1	Reactive DPG	Anti-inflammatory agent
	Allantoin	0.1		Moisturizer
	Panthenol	0.5	Reactive DP	Moisturizer
	Sodium Polyglutamate	0.05	Reaqua PGA	Moisturizer
	Sodium Hyaluronate	0.05	Reaqua HA	Moisturizer
C	Nicotinamide	2.0	Reachin Niacinamide	Whitening agent
	Limnanthes alba (meadowfoam) seed oil	1.0		Emollient
	Squalane	2.0		Emollient
	SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL	3.0		Emollient
	Hydrogenated lecithin	0.1		Conditioner
D	Hydroxyethyl Acrylate /Sodium Acryloyldimethyl Taurate Copolymer & Coco-Caprylate/Capratae& Polyglyceryl-10 Laurate	2.0	Repoly 625	Emulsifier
	Tocopherol	0.5		Antioxidant
	Caprylhydroxamic Acid & 1,2-Hexanediol & Propylene Glycol	1.0	ReantiCHP	Preservative
	Fragrance	0.05		Fragrance
	0.1% Lemon yellow	0.14		Pigment

CHAPTER FOUR

04

CONTACT INFORMATION

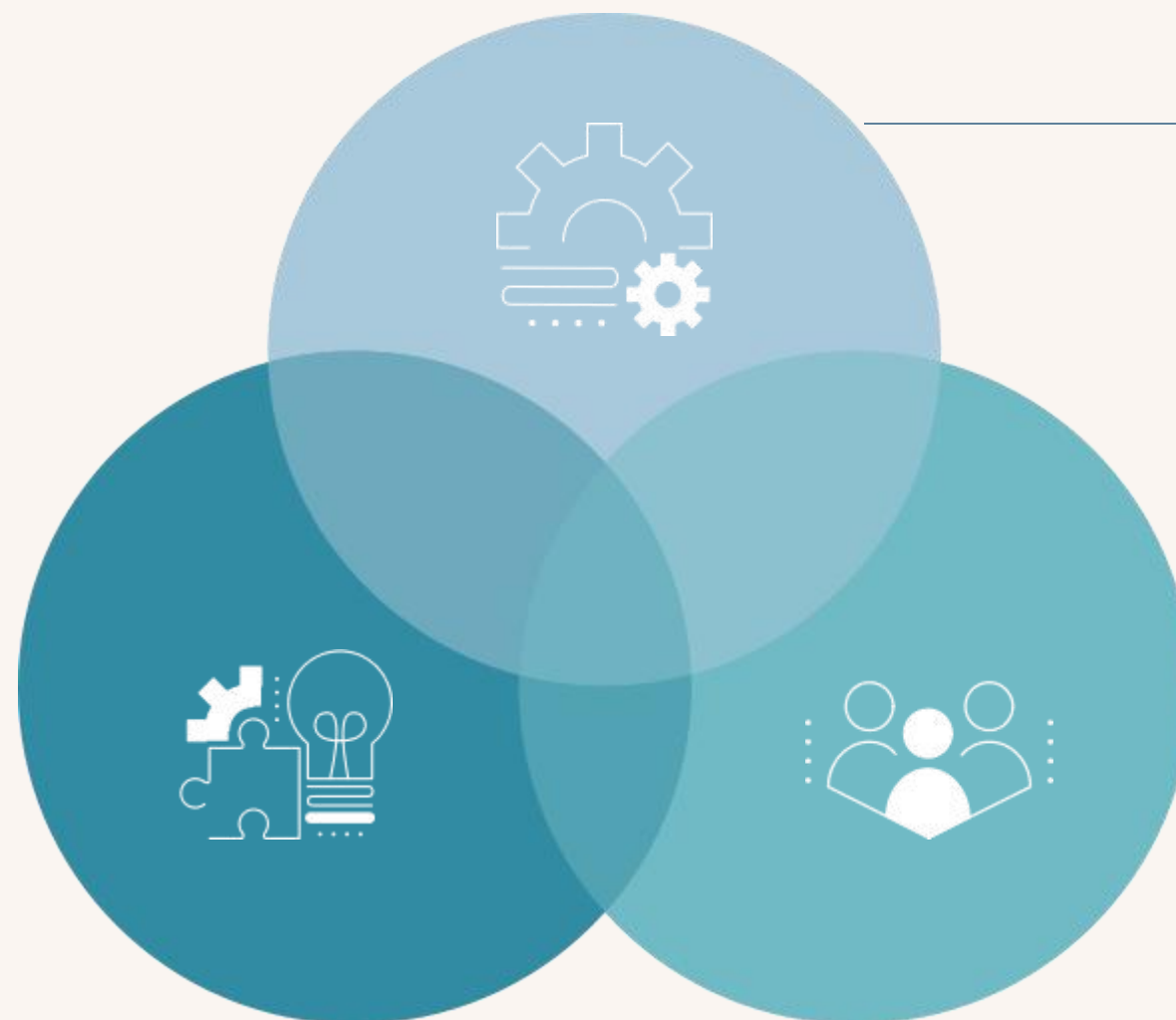
Welcome interested friends, feel free to contact us at any time

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THANK YOU FOR WATCHING

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