

Personal Care

GELAID® CPE

INCI NAME: Cyclopentasiloxane (and) Vinyl/Dimethicone Crosspolymer (and) Hydroxyethyl Acrylate (and) Sodium Acryloyl Dimethyl Taurate Copolymer (and) Cyclohexasiloxane

DESCRIPTION

GELAID® CPE is a designer silicone gel base used in the formulation of cold process skin care and cosmetic products. **GELAID® CPE** delivers premium quality, aesthetics and ease of formulation. Simply add water, and desired actives to formulate stable, elegant emulsions. No heat is required thus saving production resources and energy costs.

GELAID® CPE can also be modified with the addition of esters, natural oils, mineral oil or active ingredients. This is a cold process so heat sensitive active ingredients are protected from degradation caused by use of heat in traditional emulsion formulations.

GELAID® CPE delivers both a water and micronized silicone polymer to the skin surface. As the microemulsion breaks on the skin, the silicone polymer droplets coalesce to form a soft flexible film sealing in the hydrating moisture.

The silicone cross polymer base in **GELAID® CPE** delivers a luxurious and persistent, silky after feel upon application. **GELAID® CPE** flexibility saves formulation time and manufacturing energy. For applications where the absence of cyclomethicones is desired, **GELAID® CPE-CF** is available.

BENEFITS

- Cold Process Formulations
- Produce Stable Emulsions
- Formulation Flexibility
- Provides Silky Skin After Feel
- Energy Saving Production
- Protect Heat Sensitive Ingredients

APPLICATIONS

- Skin Care: Lotions, Creams, Cosmetic Preparations (foundations, concealers, ...)
- Sun Care: SPF Daily Wear, After-Sun Preparations

TYPICAL PROPERTIES

Properties	Typical Results
COLOR/APPEARANCE	Opaque, White, Paste
VISCOSITY at 25C	25,000 cps (T-C @ 10 rpm)
SOLIDS	9.5%
REFRACTIVE INDEX	1.390
SPECIFIC GRAVITY	0.960

These values are not intended for use in preparing specifications.

Product Information

GELAID® CPE**SAMPLE FORMULA*****High Omega Cranberry Moisturizer w/Gelaid CPE***

			<u>% WT</u>
A1.	Deionized Water		Q.S.
A2.	Propylene Glycol		2.50
A3.	Lincoserve CG-7	Lincoln Fine Ingredients	0.50
	<i>Caprylyl Glycol/Phenoxyethanol/Hexylene Glycol/Ethylhexylglycerin</i>		
B1.	GELAID® CPE	CHEMSiLSILICONES INC.	25.00
B2.	Olive Oil		2.00
B3.	Dimethsil DM-350	CHEMSiLSILICONES INC.	1.00
	<i>Dimethicone</i>		
B4.	OmegaCran	Lincoln Fine Ingredients	1.00
	<i>Cranberry Seed Oil</i>		
B5.	Linessential CO	Lincoln Fine Ingredients	1.00
	<i>Camelina Seed Oil</i>		
C1.	Cranberry Fragrance	Ascent Aromatics	0.30

Procedure:

1. Add ingredients A1-A3 while mixing under moderate agitation.
2. In a separate vessel (B) mix ingredients B1-B5 under moderate agitation.
3. Slowly add vessel B to the water phase while mixing under moderate agitation. Mix for 30 minutes or until system is homogenous.
4. Add C1 and mix until uniform.

Specifications:

Stability – 40°C eight weeks, pass 3 F/T

CRL-10-40D

Product Information

GELAID® CPE

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and Safety Data Sheets and container labels for safe use, physical and health hazard information. Avoid static electricity by using properly grounded equipment.

USABLE LIFE AND STORAGE

Store below 25°C (77°F) in a dry place away from all sources of ignition. Store in tightly closed containers. Avoid direct or prolonged contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink, or smoke in the work area.

PACKAGING

GELAID® CPE is available in 400 lb (180kg) drums.

* Samples are available upon request.

LIMITATIONS

This product is neither tested nor represented suitable for medical or pharmaceutical uses.

LIMITED WARRANTY- PLEASE READ CAREFULLY

The information contained herein is offered in good faith based on Chemsil's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customers' tests to ensure that Chemsil's products are fully satisfactory for your specific applications. Our warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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