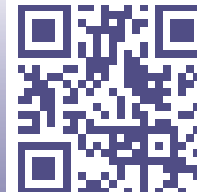




Daily Use Body Moisturizer

Product Highlighted: **Emulsun®**



a **Cargill** company

This simple yet versatile, moisturizing body lotion uses Emulsun to create a formulation that can easily be manipulated to fit the needs of a formulator. Depending on the loading level of Emulsun used, the rheology and viscosity can be adjusted to achieve the ideal preference.¹ 

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Versene® Na2 Crystals Chelating Agent	Disodium EDTA	The Dow Chemical Co.	0.03
	Satiaxane® VPC 911	Xanthan Gum	Cargill Beauty	0.15
	Zemea® Propanediol	Propanediol	DuPont Tate & Lyle BioProducts	1.00
	Structure Solanace Starch	Potato Starch Modified	Nouryon	1.00
	Glycerin	Glycerin	Cargill Beauty	3.00
B.	Myritol® 312	Caprylic/Capric Triglyceride	BASF Corporation	5.00
	Pelemol® IN-2	Isononyl Isononanoate	Phoenix Chemical, Inc.	4.00
	Emulsun	Hydrogenated Sunflower Seed Oil Polyglyceryl-3 Esters (and) Hydrogenated Sunflower Seed Oil Glyceryl Esters (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate	Floratech	4.50
C.	Citric Acid (10% Solution) Preservative ²	Citric Acid (and) Water	Cargill Beauty	q.s.
		-----	-----	q.s.
Total				100.00

Mixing Procedure³

1. Mix the Versene Na2 Crystals Chelating Agent in the deionized water of Phase A with moderate propeller agitation at room temperature.
2. In a separate vessel, combine the remaining ingredients of Phase A and add to main vessel with moderate propeller agitation. Begin heating to 75-80°C.
3. In a separate vessel, combine all the ingredients of Phase B and heat to 75-80°C with moderate propeller agitation.
4. Add Phase B to Phase A at 75-80°C with moderate homogenizer agitation until uniform.
5. Shift Phase AB to moderate propeller agitation and cool to 50-55°C.
6. Add Phase C to Phase AB in the order listed at 50-55°C with moderate propeller agitation.
7. Stop mixing at 40-45°C.

¹ 4% Emulsun will provide a light lotion whereas 5% Emulsun will provide a heavy lotion (stability confirmed).

² Preservative: euxyl® PE 9010 [INCI: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke Inc.

³ For a more energy efficient, single vessel batch, Emulsun can be added within Phase A. This eliminates the need to heat Phase B separately, and each ingredient can simply be added one at a time in the order listed.

Typical Properties: pH: 5 - 6
Viscosity: 47 - 64kCP

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of accuracy is made and the products are provided without warranty, expressed or implied and upon condition that purchasers shall make their own tests to determine the suitability, stability or safety of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent or in the treatment, prevention, or cure of any medical condition. INCI/trade names must be verified with each manufacturer. (Cleared for Public Disclosure)