



# Natural, PEG-Free Body Lotion with Emulsun



a **Cargill** company

Products Highlighted: *Emulsun<sup>®</sup>, Floraesters<sup>®</sup> 15, Floraesters 20, Floraesters 60*

Floritech's Emulsun and Floraesters come together in this natural, PEG-free body lotion to hydrate and protect the skin while providing a non-greasy skin feel. Emulsun is a low cost, natural o/w emulsifier that's stable and compatible with a variety of consistency and rheology modifiers. 

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Versene <sup>®</sup> Na2 Crystals Chelating Agent	Disodium EDTA	The Dow Chemical Co.	0.10
	Amaze Nordic Barley	Hordeum Vulgare Seed Flour	Nouryon	5.00
B.	Butylene Glycol Preservative <sup>1</sup>	Butylene Glycol	Making Cosmetics	3.00
		-----	-----	q.s.
C.	<b>Emulsun</b>	<b>Hydrogenated Sunflower Seed Oil Polyglyceryl-3 Esters (and) Hydrogenated Sunflower Seed Oil Glyceryl Esters (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate</b>	<b>Floritech</b>	<b>5.00</b>
	Cutina <sup>®</sup> GMS V	Glyceryl Stearate	BASF Corporation	0.80
	<b>Floraesters 15</b>	<b>Jojoba Esters</b>	<b>Floritech</b>	<b>3.50</b>
	<b>Floraesters 20</b>	<b>Jojoba Esters</b>	<b>Floritech</b>	<b>3.50</b>
	<b>Floraesters 60</b>	<b>Jojoba Esters</b>	<b>Floritech</b>	<b>2.50</b>
	Carnauba Wax T-1F	Copernicia Cerifera (Carnauba) Wax	Natural Wax	0.35
	Sweet Almond Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	ProTec Botanica	2.00
	Oat Lipid E <sup>2</sup>	Avena Sativa (Oat Kernel) Oil	Oat Cosmetics	1.00
Cetiol <sup>®</sup> MM <sup>2</sup>	Myristyl Myristate	BASF Corporation	4.00	
D.	Aurafirm N <sup>2</sup>	Lactobacillus Ferment (and) Avena Sativa Kernel Extract (and) Sodium Benzoate (and) Potassium Sorbate	Oat Cosmetics	2.00
	<b>Total</b>			<b>100.00</b>

## Mixing Procedure

- Combine the ingredients of Phase A at room temperature with rapid mixing. Once completely dispersed, heat to 75-80°C.
- Add the ingredients of Phase B to Phase A with rapid mixing until dispersed.
- Combine all ingredients of Phase C in a separate vessel, start heating to 75-80°C, and slowly mix until uniform.
- Add the ingredients of Phase C to Phase AB at 75-80°C with rapid mixing, followed by homomixing briefly.
- Shift the mixture to moderate to slow propeller mixing and begin cooling to 40°C.
- Add Phase D at 40°C with slow mixing until dispersed. Stop mixing when the mixture becomes uniform.

<sup>1</sup> Preservative: euxyl<sup>®</sup> PE 9010 [INCI: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke Inc.

<sup>2</sup> These ingredients were supplied by ProTec Ingredia.

**Typical Properties: pH: 6 - 7**  
**Viscosity: 150 - 553kcP**

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)