



# Natural, PEG-Free Body Lotion with Emulsun

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



Floratech'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	Disodium EDTA	The Dow Chemical Co.	0.10
	DermiVeil <sup>1</sup>	Hordeum Vulgare Powder	Oat Cosmetics	5.00
B.	1,3-Butylene Glycol Natural Preservative <sup>2</sup>	Butylene Glycol	DKSH North America	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>Floratech</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>Floratech</b>	<b>3.50</b>
	<b>Floraesters 20</b>	<b>Jojoba Esters</b>	<b>Floratech</b>	<b>3.50</b>
	<b>Floraesters 60</b>	<b>Jojoba Esters</b>	<b>Floratech</b>	<b>2.50</b>
	Carnauba Wax SP 63	Copernicia Cerifera (Carnauba) Wax	Strahl & Pitsch Inc.	0.35
	Sweet Almond Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	ProTec Botanica	2.00
	Oat Lipid E <sup>1</sup>	Avena Sativa (Oat Kernel) Oil	Oat Cosmetics	1.00
D.	Cetiol <sup>®</sup> MM <sup>1</sup>	Myristyl Myristate	BASF Corporation	4.00
	Aquafirm N	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-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> These ingredients were supplied by ProTec Ingredia.

<sup>2</sup> Preservative: Euxyl<sup>®</sup> PE 9010 [INCI: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke & Mayr UK Ltd.

**Typical Properties:** pH: 6 - 7  
Viscosity: 150 - 250kcP

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 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)