





# Gentle Face Scrub with Biodegradable Ecobeads

Product Highlighted: **Ecobeads®**



This facial scrub featuring Ecobeads gently exfoliates, leaving the skin feeling smooth and refreshed. Ecobeads are low-cost, biodegradable scrubbing beads made of natural waxes that are proven to exfoliate as effectively as polyethylene. Due to their spherical shape, Ecobeads are gentler than polyethylene and other natural exfoliatives, and therefore result in less erythema and barrier disruption during exfoliation. Ecobeads are available in many colors and are ideal for formulators seeking a natural biodegradable exfoliative positioned for value.  

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Deionized Water	Water	-----	q.s.
	Versene® Na2 Crystals	Disodium EDTA	The Dow Chemical Co.	0.05
	1,3-BG	Butylene Glycol	Nexeo Solutions	2.00
	Sulfochem® EA-2 Surfactant	Ammonium Laureth Sulfate	Essential Ingredients	14.50
	Chembetaine® C Surfactant	Cocamidopropyl Betaine	The Lubrizol Corporation	13.00
	Glucamate® DOE-120	PEG-120 Methyl Glucose Dioleate	The Lubrizol Corporation	2.00
B.	Hallstar TAB-2V	Distearyl Phthalic Acid Amide	The HallStar Company	4.50
	Lanette® 16	Cetyl Alcohol	BASF Corporation	4.00
	Vegarol® 1898	Stearyl Alcohol	Essential Ingredients	4.00
C.	Sodium Hydroxide, ACS Grade (15% Solution)	Sodium Hydroxide (and) Water	VWR International LLC	q.s.
D.	Citric Acid, USP (30% Solution)	Citric Acid (and) Water	Archer Daniels Midland Co.	q.s.
E.	Preservative <sup>1</sup>	-----	-----	q.s.
F.	<b>Ecobeads Jade<sup>2</sup></b>	<b>Stearyl Stearate (and) Euphorbia Cerifera (Candelilla) Wax (and) Jojoba Esters</b>	<b>Floratech</b>	<b>6.00</b>
			<b>Total</b>	<b>100.00</b>

## Mixing Procedure

1. Add the Versene Na2 Crystals to the deionized water with moderate propeller agitation and mix until completely dissolved.
2. While heating to 75-80°C, add the remaining ingredients of Phase A in the order listed with moderate propeller agitation.
3. In a separate vessel, mix all ingredients of Phase B. While heating to 75-80°C, mix with moderate propeller agitation until uniform.
4. Add Phase B to Phase A with rapid propeller agitation at 75-80°C.
5. Add Phase C to Phase AB with rapid propeller agitation at 75-80°C to achieve pH 6.5 - 7.5.
6. Cool Phase ABC to 45-50°C.
7. Add Phase D to Phase ABC with moderate propeller agitation at 45-50°C to achieve pH 4.8 - 5.0.
8. Add Phase E to Phase ABCD at 40-45°C and cool to room temperature.
9. Add Phase F when the batch has cooled to room temperature.

<sup>1</sup> Preservative: Phenonip® [INCI: Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Butylparaben (and) Propylparaben (and) Isobutylparaben] supplied by Clariant Corporation

<sup>2</sup> Any color or combination of colors may be used.

**Typical Properties:** pH: 4 - 6  
Viscosity: 113 - 253kcp

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)