

F O R M U L A T I O N

**ENVIRO₃SCREEN BODY PROTECTION LOTION
 ST-53**

Environmental aggressors such as ozone not only damage the surface of the skin but also cellular DNA. **Biodynes® O₃** is an ozone stressed yeast lysate that offers DNA and lipid barrier protection and repair. **NAB® Grass Roots Extract** is an excellent source of anti-oxidants, photoprotective and genoprotective materials. **Gel Base BSM5** and **Liquiwax™ DICDD** provide a non-greasy, non-oily silky feel. **Surfhope® SE C1816** improves product application and attributes a creamy feel to the product. Microbiological product integrity is protected with the **Biovert™ System**.

Ingredient	INCI Nomenclature	Supplier	%
Phase A			
Deionized Water	Water	-	66.05
Disodium EDTA	Disodium EDTA	-	0.10
Propylene Glycol	Propylene Glycol	-	4.00
Pemulen TR-1	Acrylates/C ₁₀₋₃₀ Alkyl Acrylate Crosspolymer	Noveon	0.35
Surfhope SE C1816*	Sucrose Stearate	Arch Personal Care Products	0.50
Phase B			
Demoblock OMC	Ethylhexyl Methoxycinnamate	Alzo	7.50
Escalol 567	Benzophenone-3	ISP	3.00
Escalol 587	Ethylhexyl Salicylate	ISP	6.00
Liquiwax DICDD**	Diisocetyl Dodecanediolate	Arch Personal Care Products	2.00
Gel Base BSM-5	Cyclomethicone & Dimethicone & Phenyl Trimethicone	Arch Personal Care Products	2.50
GMS 165	Glyceryl Stearate & PEG-100 Stearate	Arch Personal Care Products	1.40
Stearic Acid	Stearic Acid	-	3.00
Cetyl Alcohol	Cetyl Alcohol	-	0.20
Phase C			
TEALAN 99%	Triethanolamine	RITA	1.25
Phase D			
Biodynes O₃	Water & Saccharomyces Ferment Filtrate Lysate	Arch Personal Care Products	1.00
NAB GrassRoots Extract	Lophophyrum Elongatum (wheatgrass) Extract & Oryzopsis Milicicia (ricegrass) Extract & Collinsonia Canadensis (stoneroot) Extract	Arch Personal Care Products	1.00
Phase E			
Biovert System	Glucose & Glucose Oxidase & Lactoperoxidase	Arch Personal Care Products	1.05

* Manufactured by Mitsubishi Industries and distributed in the U.S. by Arch Personal Care Products.

** Manufactured by Innovachem Inc. and marketed by Arch Personal Care Products.

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Specifications:

pH 6.50 – 7.50
Viscosity: 15,000 – 25,000 cps (#6, 10 rpm@ 25°C)

Procedure:

1. Combine Phase A and heat to 75°C. Mix until uniform.
2. Combine Phase B and heat to 75°C. Mix until uniform.
3. While mixing, add Phase A to Phase B and mix until homogeneous.
4. Add Phase C and mix until homogeneous.
5. Remove the heat and continue to mix, cool to below 40°C.
6. Add **Biodynes O₃** and **NAB GrassRoots Extract** from Phase D, and mix until uniform.
7. Add **Biovert Substrate** and **Biovert Enzyme** from Phase E, and mix until uniform.
8. Slowly mix until cooled to room temperature.