NOURISH AND SHIELD SPRAY

FORMULA CODE: GLP-0029 VERSION DATE: 11/07/24

SPRAYABLE EMULSION · SKIN AND HAIR

GREEN LINE INGREDIENTS

TRADE NAME | SUPPLIER	INCI	%
PHASE A		
Water	Water	69.45
GreenGard™ PA12 / Green Line	**Sodium Phytate**	**0.10**
PHASE B		
Glycerin	Glycerin	3.50
EcoGel / Lucas Meyer	Lysolecithin (and) Sclerotium Gum (and) Xanthan Gum (and) Pullulan	1.00
PHASE C		
Sweet Almond Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	4.50
Bergacare FG Olive / Berg and Schmidt	Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables	4.50
Caprylic/Capric Triglyceride	Caprylic/Capric Triglyceride	9.00
GreenWax™ GOC MB / Green Line	**Glyceryl Oleate Citrate**	**3.75**
Lipex SheaClear / AAK	Butyrospermum Parkii (Shea) Oil	1.50
Radigard™ SF-R / Green Line	**Carthamus Tinctorius (Safflower) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract**	**0.50**
GreenGard™ TBG MB / Green Line	**Triethyl Citrate (and) Glyceryl Caprylate (and) Benzoic Acid**	**2.00**
PHASE D		
Fragrance	Fragrance	0.20
PHASE E		
Citric Acid (50% Aqueous Solution)	Citric Acid (and) Water	QS
Sodium Hydroxide (25% Aqueous Solution)	Water (and) Sodium Hydroxide	QS

PROCESSING

1. In a clean main beaker, weigh Phase A and begin propeller mixing while heating to 45-50 °C.

2. Pre-blend Phase B to a uniform slurry and slowly add to the main beaker while propeller mixing. Continue to mix and heat to 45-50 °C.

3. In a suitably sized side beaker, weigh Phase C and mix while heating to 45-50 °C. Phase C should be completely molten at temperature.

4. When the main beaker is completely uniform and at temperature, switch to homogenizer mixing and maintain temperature.

5. When both beakers are uniform and at temperature, slowly add the side beaker to the main beaker while homogenizing. Continue mixing at temperature for 30 seconds-1 minute/100 g final batch size.

6. When the main beaker is uniform, switch to side sweep with cooling. Cool to <50 °C.

7. Add Phase D and mix until uniform.

8. Check specs and adjust pH as needed with the ingredients listed in Phase E.

9. When in spec, homogenize for an additional 30 seconds-2 minutes/100 g final batch size. Ensure the batch is still in spec, cool with side sweep or propeller mixing to room temperature, then fill into spray bottles.

FORMULA SPECIFICATIONS (at room temperature)

Appearance: fluid, sprayable milk
Color: white to off-white
Odor: 0.2% fragrance
pH: 5.0-6.0
Packaging: spray bottle

Please note: the information provided on this formulation sheet is provided as guidance and subject to change. This formula is not intended to be a commercial product.