

NOURISH AND SHIELD SPRAY

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



TRADE NAME SUPPLIER	INCI	%
PHASE A		
DI Water / Stock	Water	69.45
GreenGard™ PA12	Sodium Phytate	0.10
PHASE B		
Glycerin / Stock	Glycerin	3.50
EcoGel / Lucas Meyer	Lysolecithin (and) Sclerotium Gum (and) Xanthan Gum (and) Pullulan	1.00
PHASE C		
Sweet Almond Oil / Stock	Prunus Amygdalus Dulcis (Sweet Almond) Oil	4.50
Bergacare FG Olive / Berg and Schmidt	Hydrogenated Ethylhexyl Olivatate (and) Hydrogenated Olive Oil Unsaponifiables	4.50
Caprylic/Capric Triglyceride / Stock	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 / Stock	Fragrance	0.20
PHASE E		
Citric Acid (50% Aqueous Solution) / Stock	Citric Acid (and) Water	0.00
Sodium Hydroxide (25% Aqueous Solution) / Stock	Water (and) Sodium Hydroxide	0.00

PROCESSING

1. In a clean and sanitized main mixing vessel, weigh Phase A and begin propeller mixing while heating to 45°-50°C.
2. In a separate vessel, pre-blend Phase B to a uniform slurry and slowly add to the main kettle while propeller mixing. Continue to mix and heat to 45°-50°C.
3. In a suitably-sized side kettle, weigh Phase C and mix while heating to 45°-50°C. Phase C should be completely molten at temperature.
4. When main kettle is completely uniform and at temperature, switch to homogenizer mixing and maintain temperature.
5. When both kettles are completely uniform and at temperature, slowly add side kettle to main kettle while homogenizing. Continue mixing at temperature for 30 seconds-1 minute/100g final batch size.
6. When main kettle is uniform, switch to side sweep with cooling. Cool to <50°C.
7. When main kettle reaches <50°C, add Phase D ingredient and mix until uniform.
8. When main kettle is uniform, check specs and adjust as needed with ingredients listed in Phase E.
9. When main kettle is uniform and in spec, homogenize for an additional 30 seconds - 2 minutes/100g final batch size. Ensure main kettle is still in spec and cool with side sweep or propeller mixing to room temperature, then drop into appropriate containers.

FORMULA SPECIFICATIONS (at room temperature):

Appearance: Pourable milk, TMS
Color: White to off-white, TMS
Odor: 0.2% Fragrance blend, TMS
pH: 5.0-6.0
Viscosity: TBD

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.