

Watery Emulsion <O/W> WL-B

A watery feel non-oily emulsion with rich moisturization using gelling agent

		(wt%)	
A	Simmondsia Chinensis (Jojoba) Seed Oil *1	3.00	Vegetable Oil
	Caprylic/Capric Triglyceride *2	2.00	Emollient
	Prunus Amygdalus Dulcis (Sweet Almond) Oil *3	1.00	Vegetable Oil
	Macadamia Integrifolia Seed Oil *4	1.00	Vegetable Oil
	Hydrogenated Polyisobutene *5	1.00	Emollient
	Polyglyceryl-10 Cocoate *6	0.80	Emulsifier
	Polyglyceryl-10 Dioleate *7	1.50	Emulsifier
	Polyglyceryl-2 Oleate *8	0.70	Emulsifier
B	GP-1	0.24	Gelling Agent
	EB-21	0.16	Gelling Agent
	Butylene Glycol *9	7.60	Solvent
C	Water	73.50	
	Glycerin *10	2.00	Moisturizing Agent
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer *11 (1 wt% Aqueous Solution)	5.00	Viscosifier
E	Arginine (10 wt% Aqueous Solution)	0.5	pH Modifier
F	Fragrance	q.s.	
		100.0	

- 1 Dissolve part B at 80°C.
- 2 Mix part A uniformly at 80°C and add liquified B to A. Mix A and B uniformly.
- 3 Mix part C uniformly at 80°C.
- 4 While mixing part A+B with a paddle mixer (400 rpm) at 80°C,
add one-third of part C (80°C) gradually over 1~2 min and mix well.
Gradually add the rest of heated part C(80°C) over 5 min and mix the final mixture further for 5 min.
- 5 Add part D (80°C) to the emulsion and further mix with a paddle mixer (300 rpm) for 3~5 minutes.
- 6 Stop heating the mixture. Add E and F to it and mix by stirring (175 rpm) at room temperature.
- 7 Cool down by stirring (175 rpm) at room temperature.

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| * 1 | Refined Jojoba Oil | Koei Kogyo |
| * 2 | TCG-M | Kokyu Alcohol Kogyo |
| * 3 | Sweet Almond Oil | Nikkol Group |
| * 4 | Macadamia Nut Oil | Nikkol Group |
| * 5 | PARLEAM 6 | NOF |
| * 6 | EMALEX MCCG-10 | Nihon Emulsion |
| * 7 | SALACOS PG-218 | Nisshin Oillio Group |
| * 8 | SALACOS DG-180 | Nisshin Oillio Group |
| * 9 | 1,3-Butylene Glycol | Daicel |
| * 10 | Glycerin | Sakamoto Yakuin Kogyo |
| * 11 | Carbopol ETD2020 | Lubrizol |

Stability : Stable for 3 months at 5 °C, 25 °C, 50°C, and -5 ~ 40 °C Cycle

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