SK 048

BABY COMFORT LOTION

Developed using **NATURSOL™ EMI** *Lite* as the sole rheology modifier, this gentle baby lotion glides effortlessly over the skin with a silky-smooth, easily spreadable texture. Its minimalist formula - free of co-emulsifiers - nourishes delicate baby skin, leaving it soft, hydrated, and perfectly non-greasy. Ideal for daily use, it seamlessly combines simplicity with effectiveness.

PHASE	TRADE NAME	INCI (EU)	FUNCTION	Wt. %
A	Deionized Water	Aqua	Solvent	qsp 100
	Allantoin [1]	Allantoin	Active ingredient	0.40
	Glycerin	Glycerin	Humectant	3.00
B	**NATURSOL™ EMI *Lite* [2]**	**Sodium Polyacrylate Starch, Octyldodecyl Myristate, Caprylyl/Capryl Glucoside**	**Rheology modifier**	**3.00**
C	DUB IPP [3]	Isopropyl Palmitate	Emollient	3.00
	DUB MCT 55/45 [3]	Caprylic/Capric Triglyceride	Emollient	3.00
	Macerat huileux Calendula [4]	Helianthus annuus seed oil, Calendula officinalis flower extract	Emollient	5.00
D	Tocobiol C [5]	Tocopherol (mixed), Beta-Sitosterol, Squalene	Antioxidant	0.10
E	Microcare BEHG [6]	Benzyl Alcohol, Ethylhexylglycerin	Preservative	0.85
F	NaOH (10% solution)	Aqua, Sodium Hydroxide	pH adjuster	qs pH 5.5-5.7

Suppliers: [1] DSM; [2] SNF; [3] Stéarinerie Dubois; [4] Actibio; [5] CQ Masso; [6] Thor

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Process

- **Phase A**: Dissolve allantoin in glycerin and water under stirring.
- Weigh **Phase B** and add it to **Phase A** while stirring. Mix well for 15 min at 800-1000 rpm.
- Add **Phase C** to the **Phase A+B** mixture and stir for 10 min at 1000 rpm.
- Incorporate **Phase D** and **Phase E** and mix well.
- Adjust the pH using **Phase F.**

Properties*

- **Appearance:** off-white viscous lotion
- **pH:** 5.5 – 6.0
- **Viscosity**:** 30000 – 35000 cP
- **Stability:** Passed 3 months @ RT, 40°C and 1 month @ 50°C
  Passed LumiSizer test (equivalent 9 months 40°C)

*Measured after 24 hours
**Brookfield RVT, 20 rpm, spindle 6
*** Parameters : 3h14/ 40°C/ intensity 2/ filter 870nm/ 2000g

Benefits *NATURSOL™ EMI Lite*

- Readily biodegradable polymer with high natural (78%) origin content (ISO 16128)
- Multifunctional polymer: thickener, stabilizer, and texturizing
- Pre-neutralized liquid/ready to use
- Cold process
- A unique emulsifier to add in formulations

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