

## Starting point formulation – Nourishing foot balm – happy feet

This foot balm cares and regenerates even heavily stressed and tired feet and leaves them smooth and soft. **TIXOGEL-IIN** stabilizes the emulsion and ensures a beautiful texture and a pleasant skin feel. This formulation is manufactured in a cold, energy-saving process.

### Formulation

Phase	Tradename	INCI	Supplier	Function	Dosage (%)
A	Water	Aqua		Carrier	50.60
	D-Panthenol 75W	Aqua, Panthenol	BASF	Active	1.30
	Urea	Urea	Carl Roth	Moisturizer	20.00
	Glycerol 99,5 %	Glycerin	Merck KgaA	Moisturizer	3.00
	Magnesium Sulfate Heptahydrate	Magnesium Sulfate	Carl Roth	Stabilizer	1.00
	Euxyl PE9010	Phenoxyethanol, Ethylhexylglycerin	Ashland	Preservative	0.60
	Citric Acid, 10 % Solution	Aqua, Citric Acid	Carl Roth	pH-regulator	0.05
B	Isolani PDI	Diisostearoyl Polyglyceryl-3 Dimer Dilinoleate	Evonik	W/O emulsifier	2.50
	Isolan GPS	Polyglyceryl-4 Diisostearate, Polyhydroxy-stearate/Sebacate	Evonik	W/O emulsifier	1.00
	<b>TIXOGEL-IIN</b>	<b>Isononyl Isononanoate, Quaternium-90 Bentonite, Propylene Carbonate</b>	<b>BYK</b>	<b>Rheological additive</b>	<b>5.00</b>
	Cetiol 868	Ethylhexyl Stearate	BASF	Emollient	6.00
	Sweet Almond Oil	Prunus Amygdalus Dulcis Oil	Henry Lamotte	Oil/emollient	4.00
	Sodium Stearate OP 10D-V	Sodium Stearate	Hallstar	Stabilizer/soap	0.75
	Cegesoft C24	Ethylhexyl Palmitate	BASF	Emollient	4.00
C	Perfume Oil Origins Natural	Fragrance	Voegele	Fragrance	0.20
<b>Total</b>					<b>100.00</b>

**TIXOGEL-IIN** is a mastergel based on an organically modified bentonite that stabilizes the emulsion, reduces the tackiness of formulations and leads to a velvety dry touch.

### Instructions (manufacturing procedure)

- Add water into a beaker.
- Add the ingredients of phase A one by one until clearly dissolved.
- Then adjust the pH-value to 5.0–5.5 with citric acid.
- The ingredients of phase B are placed in a separate beaker and stirred (800 rpm) until a homogeneous mixture is formed.
- Phase A is slowly transferred into phase B while running the ultra turrax. (8.600 rpm)
- Homogenize for 2 min.
- Add the fragrance and stir until you get a homogeneous mixture.

### Characteristic data

- Appearance: off-white, viscous emulsion
- Storage stability: 3 months at 40 °C



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