

# Anti-Acne Cream Gel for Sensitive Skin

**O-0013B (EU)**

Pemulen® TR-1 Polymer is used as the primary emulsion stabilizer and Carbopol® Ultrez 21 Polymer delivers efficient thickening with no tacky afterfeel. SilSense™ DW-18 Silicone improves the aesthetic properties of the formulation by reducing the particle size of the oil droplets. Ultrabee® 25 Silicone is a conditioning additive intended to counteract the drying effects of the active ingredients and help improve the long-wear properties of the product. Glucam™ E-20 Humectant is a naturally derived mild ingredient which reduces the overall tackiness of the formulation and provides a moisturized, silky skin feel.

	INCI Name, Trade Name	Weight %	Function
<b>A.</b>	1. Deionized Water	89.20	Diluent
	2. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <i>Pemulen® TR-1 Polymer</i>	0.20	Polymeric Emulsifier
	3. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <i>Carbopol® Ultrez 21 Polymer</i>	0.50	Rheology Modifier
<b>B.</b>	4. Tetrasodium EDTA, <i>Edeta® B</i>	0.10	Chelating Agent
	5. Glycerin	2.50	Humectant
	6. Methyl Gluceth-20, <i>Glucam™ E-20 Humectant</i>	2.50	Humectant
	7. Dimethicone PEG-7 Isostearate, <i>SilSense™ DW-18 Silicone</i>	1.00	Emulsifier / Conditioning Agent
<b>C.</b>	8. Bis-Hydroxyethoxypropyl Dimethicone Beeswax Esters, <i>Ultrabee® 25 Silicone</i>	0.20	Emollient
<b>D.</b>	9. Aminomethyl Propanol, <i>AMP-Ultra™ PC 2000 (95%)</i>	0.50	Neutralizer
<b>E.</b>	10. Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben, <i>Germaben® II</i>	0.60	Preservative
	11. Water (and) Polysorbate 20 (and) PEG-40 Hydrogenated Castor Oil (and) Melaleuca Alternifolia (Tea Tree) Leaf Oil, <i>Water-Soluble Tea Tree Oil</i>	2.70	Botanical Oil (Anti-Acne)

## Product Properties:

Appearance	Cream gel
pH	6.3 – 6.7
Viscosity (mPa·s)**	14,000 - 17,000
Stability:	Passed 3 months @ 45°C, 5 cycles freeze/thaw

\*\*Brookfield DV – II+ (or RVT) @ 20 rpm, 25°C, #5 spindle, measured after 24 hours

## Supplier References:

Noveon, Inc. (2, 3, 6, 7, 8)  
BASF (4)  
Protameen (5)  
Dow (9)  
ISP (10)  
Southern Cross (11)

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(SIL-0009EU-B)

Edition: September, 2006  
Reference # 160306-2 (PS)

Previous Formulation #: SIL-0009EU  
Original Edition: November 6, 2002  
Reference #: 021128-3

## Procedure:

- PART A:** Disperse **Pemulen® TR-1** and **Carbopol® Ultrez 21 Polymers** into deionized water with mixing.
- Add **PART B** ingredients to batch in order. Mix until homogenous.
- Heat the mixture to 45°C. Add **PART C** and homogenize (use Ultra Turrax homogenizer for 30 seconds).
- Neutralize batch with **PART D**. Mix until uniform.
- Using slow agitation, add **PART E** ingredients and mix until uniform.

For more information visit [www.noveon.com](http://www.noveon.com) or [www.carbopol.com](http://www.carbopol.com) or contact your nearest Noveon location.

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