SALVONA
Unique & Easy Micro-Encapsulation Solutions

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June 19, 2026

Subject: Sensitive Skin Application & Recommended Use Levels for HydroSal® SalCool, 8278-06

To Whom It May Concern,

Salvona describes HydroSal® SalCool, 8278-06 as safe for sensitive areas, including around the eyes, which is a strong indication of low irritation potential. This is mainly because it uses encapsulated, non-menthol cooling agents (Menthyl Lactate, Ethyl Menthane Carboxamide, and Methyl Diisopropyl Propionamide), which create a sensory cooling effect without the sharp irritation often associated with free menthol.

For HydroSal® SalCool, 8278-06, the practical use levels are:

- 0.5–1.0% → ideal for sensitive facial skin, under-eye, post-procedure calming, redness-prone skin
- 1–2% → moderate cooling for daily skincare, body lotions, scalp products
- 2–3% → stronger cooling for sports recovery, after-sun, body gels
- 3–5% → maximum sensory cooling, best for body applications rather than facial sensitive skin

For sensitive skin formulations, our recommended use levels of HydroSal® SalCool, 8278-06 are:

- Face/eye area:
  → Start at 0.5%, this delivers enough cooling without overstimulation.
- Sensitive scalp / leave-on serum:
  → 0.75–1.5%
- Post-acne or irritated skin calming gel:
  → 0.5–1%, ideally combined with soothing systems like niacinamide, panthenol, or ceramides.

A key advantage of HydroSal over free-cooling agents is that encapsulation enables a controlled, gradual release, which reduces “cooling shock” and lowers the risk of irritation. That makes it much more suitable for compromised skin barriers, rosacea-prone skin, and sensitive skin types compared with free menthol or high-dose menthyl lactate. Since the cooling is neuro-sensory rather than thermodynamic, you get comfort without aggressive vasoconstriction or dehydration. Hence, with our recommendations above, 0.5% – 0.8% of HydroSal® SalCool, 8278-06 would be the sweet spot use level. This usually gives a noticeable but elegant cooling effect while preserving skin comfort.

Important Note: Salvona has not conducted specific in-house clinical or compatibility testing of HydroSal® SalCool on sensitive skin. The recommendation for use on sensitive skin is based on in-house technical evaluation, the known safety and sensory profile of its cooling actives—primarily Menthyl Lactate, Ethyl Menthane Carboxamide, and Methyl Diisopropyl Propionamide—as well as published literature and supplier information indicating that these materials provide a milder, more controlled cooling effect than free menthol. Therefore, formulators are strongly advised to conduct their own compatibility, irritation, and patch testing under their intended conditions of use before commercialization.

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Should you require any additional documentation or have further questions, please feel free to contact us directly.

Sincerely,





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