

# Custom Skincare Formulation Report

**Customer:** Complete PHP MCP PostgreSQL Test

**Date:** August 25, 2025

**Formulation ID:** FORM-000024

## Formulation Summary

**Base Format:** Mist

**Skin Type:** oily, acne-prone

## Key Active Ingredients

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- Niacinamide
- Caffeine

## Functional Extracts

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- Neem

## Boosters & Hydrators

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- Hyaluronic-acid

## ? AI-Generated Formulation Analysis

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### Database-Optimized Mist for Oily, Acne-Prone Skin

**Niacinamide:** 4% (Safe range: 2% - 10%)

**Caffeine:** 0.8% (Safe range: 0.5% - 3%)

**Neem:** 0.5% (Safe range: 0.1% - 2%)

**Hyaluronic-acid:** 0.8% (Safe range: 0.1% - 2%)

**Expected Benefits:** Reduces oil production, Minimizes pores, Reduces puffiness, Improves circulation, Antibacterial, Intense hydration

**Application Instructions:** Spray mist evenly onto cleansed face from a distance of 6-8 inches. Use morning and night. Apply to damp skin to maximize the benefits of hyaluronic acid.

**Ingredient Synergies:** Synergistic combinations include niacinamide with caffeine, niacinamide with hyaluronic acid, caffeine with hyaluronic acid, and neem with hyaluronic acid, enhancing overall efficacy.

**Warnings:** Niacinamide may cause flushing at high concentrations., Caffeine may cause sensitivity in high concentrations., Neem requires a patch test., Hyaluronic acid should be applied to damp skin for best results.

## Product Description

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{ "product\_description": "Introducing the Database-Optimized Mist for Oily, Acne-Prone Skin, a revolutionary skincare solution meticulously crafted using real-time data from a comprehensive MySQL ingredient database. This innovative mist is formulated to address the unique challenges faced by individuals with oily, acne-prone skin, offering a multi-faceted approach to achieve a clearer, healthier complexion. By leveraging the latest ingredient safety data, each component is scientifically chosen and synergized to deliver maximum efficacy and safety.\n\nExperience a remarkable reduction in oil production and minimized pores, thanks to a potent blend of active ingredients renowned for their ability to balance sebum levels and refine skin texture. This mist not only tackles excess oil but also improves circulation and reduces puffiness, promoting a refreshed and revitalized appearance. Additionally, its antibacterial properties work diligently to prevent and reduce acne breakouts, ensuring your skin remains clear and radiant.\n\nInfused with intense hydration agents, this mist provides deep moisture without clogging pores, making it an ideal choice for oily skin types. Trust in the power of database-verified ingredient synergies to deliver a soothing and effective skincare solution, perfectly tailored to your skin's needs. Elevate your skincare routine with a product that embodies the pinnacle of scientific advancement and personalized care." }

## Recommended Concentrations

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**Niacinamide:** 5% (Safe range: 2% - 10%)

**Caffeine:** 1% (Safe range: 0.5% - 3%)

**Neem:** 0.5% (Safe range: 0.1% - 2%)

**Hyaluronic-acid:** 2% (Safe range: 0.5% - 5%)

## Expected Benefits

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- Oil control and pore refinement

- Energizing and circulation-boosting effects
- Antioxidant protection
- Improved skin texture and tone evenness
- Pore appearance minimization

## Usage Instructions

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Shake well before use. Hold 6-8 inches from face and spray evenly. Use morning and evening after cleansing. Allow to absorb before applying moisturizer.

This formulation was created based on your specific skin needs and preferences.

Generated by Skincare Formulation App