



"The Hidden Dangers of High-Foaming Soaps for Your Skin"

"How Excessive Foam in Soaps Can Damage Your Skin"

Medical Report: The Negative Effects of Low-TFM Soaps on Skin Health and Wellness

The Bureau of Indian Standards (BIS) categorizes toilet soaps into three grades based on their TFM content:

Grade 1:

TFM: Above 76%.

Characteristics: Excellent cleansing, and moisturizing properties due to natural oils with low lathering and foaming

Grade 2:

TFM: Between 70% and 76%.

Characteristics: Good quality, suitable for general use but slightly less moisturizing with normal lathering and foaming

Grade 3:

TFM: Between 60% and 70%.

Characteristics: Primarily used for laundry or as multipurpose soap with high lathering and foaming

Why High Foaming & Lathering Soaps Could Be Harmful to Your Skin: A Medical Overview

Low-TFM soaps often produce more lather because they typically contain synthetic surfactants or detergents that are specifically designed to enhance lathering and foaming. However, this comes at the cost of reduced skin-friendliness and overall quality.

Published in the Indian Journal of Dermatology, Venereology, and Leprology (IJDVL).

Highlights the high prevalence of contact dermatitis due to low-quality soaps used in Indian households.

A survey conducted in urban and rural areas showed that over 60% of households use Grade 3 soaps **with low TFM, leading to a significant increase in skin-related complaints, especially in children.**



Findings from the Journal of Dermatological Science (2022):

High-lather soaps altered the skin microbiome, reducing beneficial bacteria like *Staphylococcus epidermidis* and increasing pathogenic strains such as *Staphylococcus aureus*.

Consequences included a higher risk of infections and delayed wound healing.

American Journal of Contact Dermatitis (2020)

The American Journal of Contact Dermatitis (2020) reported that 40–50% of patients using high-lather soaps regularly experienced mild to severe ICD.

Symptoms included:

- **Persistent erythema (redness).**
- **Itching and peeling of skin.**
- **Fissures in severe cases.**

Contact Dermatitis (2021)

A systematic review published in Contact Dermatitis (2021) highlighted that products with high surfactant concentrations, such as those found in foaming soaps, **are leading contributors to ICD in over 35% of reported cases.**

Journal of Investigative Dermatology (2018)

A study in the Journal of Investigative Dermatology (2018) demonstrated that regular exposure to strong surfactants **increased TEWL and caused visible skin dryness and irritation.**

Published in the Indian Journal of Dermatology, Venereology, and Leprology (IJDVL).

The study found that exposure to Grade 3 Soaps with high foaming **increased transepidermal water loss, leading to skin signs like erythema (redness), scaling, fissures, and symptoms such as itching and dryness.**

Medical Report: The Skin Risks of High-Fragrance Soaps

Contact Dermatitis (2019)

According to a report in Dermatitis (2019), about 15% of patients with soap-related reactions tested positive for **fragrance allergies.**

Indian Journal of Dermatology

Studies published in the Indian Journal of Dermatology have reported a significant number of cases of contact dermatitis associated with fragranced products. Patients with eczema, psoriasis, or sensitive skin are particularly susceptible.

Dermatitis: Contact, Atopic, Occupational, Drug

A study published in Dermatitis: Contact, Atopic, Occupational, Drug revealed that synthetic fragrances contribute to the breakdown of the skin's protective barrier, exacerbating dry skin, cracking, and inflammation.

Dermatology Research and Practice

Studies in Dermatology Research and Practice have shown that soaps with high fragrance content contribute to trans-epidermal water loss (TEWL), leading to increased skin dryness and irritation.

"Pulfresh Hand Wash: A Gentle and Effective Solution for Clean, Nourished Hands"

At Pulfresh, we are committed to providing a gentle yet highly effective solution for hand hygiene. Our hand wash is formulated with natural disinfectant oils, typically recommended for Grade 1 soaps, combined with a minimal, carefully selected amount of surfactants in line with Grade 2 standards. Additionally, we incorporate rich moisturizing natural ingredients, as recommended for Grade 1 products, to nourish and protect your skin. This thoughtful blend ensures that your hands stay clean and refreshed without compromising skin health, making it an ideal choice for frequent use.

