



BotaniDesign™ 105



Ultra-rich, glossy, biodegradable jelly emollient



DERIVED NATURAL ACCORDING TO ISO 161281



READILY BIODEGRADABLE²



VEGAN SUITABLE³

CARGILL SUSTAINABILITY SCORE













Origin:

- INCI: Hydrogenated Vegetable Glycerides
- BotaniDesign™ 105 is an ultra-rich, readily biodegradable vegetable-based emollient developed as a drop-in replacement for emulsion formulations. Derived natural, with a smooth nourishing skin-feel, BotaniDesign™ 105 is the ideal alternative to petrolatum for bringing richness to formulations and providing enhanced skin care and hair care benefits.

Benefits:

- Supports skin barrier health
- Highly occlusive for TEWL
- Enhanced moisturization
- Offers ability to create
- Adds shine to lip products
- Adds body to formulations
- Non-Comedogenic

Technical data:

- Appearance: White to off-white semi-solid (25°C)
- Drop point (typical): 50°C
- Shelf life: 2 years

Uniqueness:

BotaniDesign™ 105 is a complex esterification of botanical derivatives

One-pot process:

- Solvent-free reaction

Applications







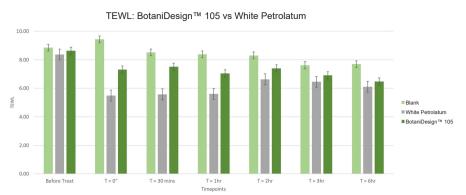






High performance in skincare benefits:

Trans-epidermal water loss (TEWL)





TEWL performance of neat BotaniDesign™ 105 was on par/slightly better than that of neat petrolatum.

Evaluation of the sensory profile of the raw ingredient BotaniDesign™ 105 compared to the benchmark white petrolatum.



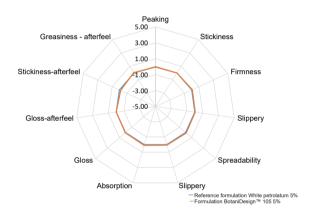
Dunnett's Test: p≤0.01 ***; p≤0.05 **; p≤0.10 *

BotaniDesign™ 105 is less peaking, less sticky and less firm compared to White Petrolatum

Expert panel:

- Number of panelists: 8
 Age range: 30-75 y old
- Gender distribution: 4(M) 4(F)

Evaluation of the sensory profile of a cream formulation containing 5% raw ingredient BotaniDesign™ 105 compared to the cream containing 5% of white petrolatum.



No significant difference between the BotaniDesign™ 105 as compared to White Petrolatum

Expert panel:

- Number of panelists: 11
- Age range: 30-75 y old
- Gender distribution: 4 (M) 7 (F)

Product details

- CAS N°: 69028-36-0 and 100684-29-5
- EC N°: 309-701-9Shelf Life: 2 years
- Packaging: 16 kg Pail, 176 kg Drum, Bulk

Contact us at: beauty@cargill.com

Disclaimer: This document is for your information and convenience only. All information, statements, recommendations and suggestions are believed to be true and accurate under local laws but are made without guarantee, express or implied. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE and FREEDOM FROM INFRINGEMENT and disclaim all liability in connection with the storage, handling or use of our products or information, statements, recommendations and suggestions contained herein. All such risks are assumed by you/users. The labeling, substantiation and decision making relating to the regulatory approval status of the labeling on and claims for your products is your responsibility. We recommend you consult regulatory and legal advisors familiar with applicable laws, rules and regulations prior to making regulatory, labeling or claims decisions for your products. The information, statements, recommendations and suggestions contained herein are subject to change without notice.



¹ ISO 16128-1:2016 and ISO 16128-2:2017

² This product when tested was found to be readily biodegradable according to OECD 301B

³ The responsibility of a vegan claim lies with the cosmetic manufacturer. Please consult your own legal or regulatory experts to ensure suitability of the product with your preferred standard.
⁴ Cargill has not tested BotaniDesign™ 105 in final OTC drug formulations. Compliance with FDA regulations is the responsibility of the customer