

# DuPont™ Glypure®

## COSMETIC-GRADE GLYCOLIC ACID

Glycolic acid is among the most popular actives in anti-aging formulations and has strong consumer recognition as an ingredient in many skin care products. DuPont™ Glypure®—cosmetic-grade glycolic acid that is used in many cosmetics and other personal care products.



When it comes to cosmetic-grade glycolic acid, DuPont™ Glypure® sets the standard:

- Exceptional purity levels for personal care products
- Clear, colorless appearance
- Reliable, consistent supply from a dedicated production line
- Odorless
- Compatibility with other compounds and ingredients
- Biodegradability

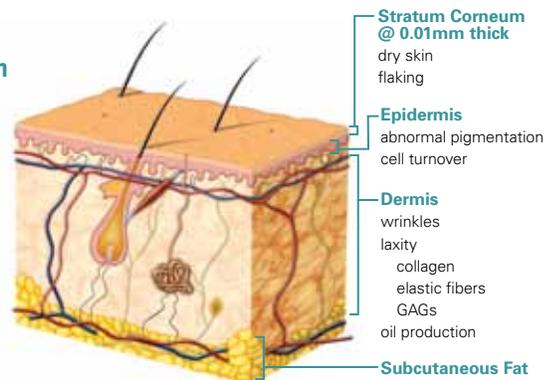
### DuPont—The Preferred Source of Cosmetic-Grade Glycolic Acid

DuPont is the world's leading supplier of cosmetic-grade glycolic acid. We earned this distinction by providing exceptional purity levels, consistently reliable supply and outstanding technical support.

Our glycolic acid manufacturing facility is ISO 9001:2000 certified and uses a continuous process 24 hours a day, seven days a week. This not only ensures ready availability, it also eliminates the batch-to-batch inconsistencies often found in glycolic acid from other suppliers. We are actively working toward REACH (Registration Evaluation and Authorization of Chemicals) compliance, which we view as part of a growing global regulatory trend for the sustainable development, production and use of chemicals.

### How DuPont™ Glypure® Works on Skin

When used in cosmetic formulations, DuPont™ Glypure® penetrates the skin effectively and stimulates cellular activity. It moisturizes the stratum corneum to alleviate dry skin and flaking; can readjust the water percentage in the epidermis, allowing for smoother, softer and more radiant skin; and increases the production of dermal matrix compounds and collagen synthesis in the dermis, reducing the appearance of fine lines and wrinkles while improving elasticity and firmness.



### DuPont™ Glypure® Is Available in Three Grades<sup>1</sup>

**DuPont™ Glypure® 70** is a purified liquid form of glycolic acid. It is an aqueous solution at 70% concentration.

**DuPont™ Glypure® 99** is a highly purified crystalline form of glycolic acid for applications where avoidance of water is necessary. It is constituted as small, prismatic crystals of 99+% purity.

**Pre-neutralized DuPont™ Glypure®** is an aqueous solution neutralized with ammonium hydroxide. It is available in a variety of pH levels—2.25, 3.25, 3.8, 4.0, 4.4—as well as custom pH.

<sup>1</sup> All grades are also available with a pass-through license from TriStrata, a wholly owned subsidiary of NeoStrata Company, Inc., and are designated DuPont™ Glypure® L.



The miracles of science™

## Ideal for a Variety of Products

DuPont™ Glypure® is ideal for use in a variety of personal care products for skin, hair, nails and cuticles, providing important benefits that consumers desire. Here's a brief overview:



### Benefits

- Improving the appearance of sun damaged skin and fighting skin aging
- Revealing smoother, brighter, more supple skin with less pigmentation and fewer irregularities
- Promoting the cycle of skin shedding (also known as cell turnover) and re-growth
- Enhancing performance of certain topical over-the-counter and prescription applications

### Applications

- Cell turnover/exfoliation products
- Skin peeling products
- Creams, serums, lotions, cleansers and toners designed to reduce the signs of aging
- Moisturizing skin creams and lotions
- Acne treatment combinations
- Skin lightening combinations
- Sunscreen combinations
- Men's skin care



### Benefits

- Allowing hair to better withstand heat
- Making hair less prone to breakage
- Making hair more manageable, easier to style
- Helping hair to feel softer and smoother
- Moisturizing the hair and scalp for a healthy look and feel with less flaking of the scalp

### Applications

- Conditioners
- Shampoos
- Moisturizing shampoos
- Leave-in conditioners
- All-in-one body/hair washes



### Benefits

- Moisturizing nails and cuticles for a healthier look and feel
- Softening cuticles for easier grooming

### Applications

- Cuticle conditioners
- Nail conditioners

## Unmatched Services

In addition to high quality and reliable supply, our customers have the added advantage of access to a dedicated, professional staff of technical service representatives, formulating chemists and analytical chemists for help with technical questions, assistance with new product development and advice to help ensure the success of products made with DuPont™ Glypure®—all at no additional charge.

We also offer a wide variety of starting point formulations using DuPont™ Glypure® for skin, hair, nails and men's personal care products. These formulations are for products ranging from face creams and revitalizing peels

to shampoos, conditioners, razor bump treatments and much more. To meet evolving marketplace needs, we also regularly introduce new starting point formulations.

## No License Required

For most of the global market, you do not need to worry about managing a licensed product. You have the freedom to use DuPont™ Glypure® in new products to meet increasing consumer demand without the added concern or expense of a licensing agreement. And, if you want to sell products in Canada and Australia where a license is still required—or nail care products in Europe—you can use DuPont™ Glypure® L, which offers all the benefits of our cosmetic-grade glycolic acid plus the convenience of a pass-through license.



*The miracles of science™*

North America: 1.888.243.4608  
International: 1.302.892.7536  
[www.glypurecosmetics.dupont.com](http://www.glypurecosmetics.dupont.com)

The information set forth herein is furnished free of charge and based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill, at their own risk. DuPont makes no warranties, expressed or implied, including a warranty of fitness for a particular purpose and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under any existing patents other than those specifically described herein. Always read the label, license and product information before use.

Copyright © 2010 DuPont. The DuPont Oval Logo, DuPont®, The miracles of science™, and Glypure® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved. K-23336 5/10