Propylene Glycol USP is an ingredient used to improve the texture and stability of many pharmaceuticals, cosmetics, and health and beauty aides:

- Foundations
- Gentle beauty washes
- Facial creams and alpha hydroxy lotions
- Mascara
- Dental whiteners
- Shampoos

The U.S. Food and Drug Administration also has cleared use of PG USP for specified uses and in specified quantities for certain food applications.

Propylene Glycol, USP has several functions in the products in which it is used. It serves as a:

- Stabilizer
- Emulsifier
- Texturizer
- Antioxidant
- Anti-caking agent
- Humectant (moisture absorber)

Lyondell Chemical Company manufactures Propylene Glycol, USP using monitored processes and following applicable FDA good manufacturing practices and ISO 9000 standards.

FAQs

Is Propylene Glycol safe?

The U.S. Food and Drug Administration has given Propylene Glycol the same classification given to common products such as vinegar and table salt: Generally Recognized As Safe (GRAS).

The Cosmetic Ingredient Review (CIR) Panel also has concluded that Propylene Glycol is safe for use up to 50% in cosmetics. The panel is a scientific committee that uses the expertise of dermatologists, toxicologists, oncologists and other health scientists in assessing the safety of cosmetic ingredients.

What kind of testing has been done on propylene glycol?

As part of standard product safety research, Propylene Glycol has been tested on bare skin at a variety of concentrations under a variety of conditions. While full-strength Propylene Glycol that is applied to the skin and prevented from evaporating was found to cause skin irritation, these conditions are more extreme than practical applications of consumer products using Propylene Glycol.

Studies using actual product formulations have shown that Propylene Glycol is safe in cosmetics in concentrations up to 50%. Typically, it is used in concentrations less than 10%.
Propylene Glycol has also been extensively tested for chronic effects, such as cancer and reproductive problems. Long-term studies by independent panels of medical and scientific experts, as well as industry experts, have demonstrated the safety of Propylene Glycol in all cosmetic and personal care applications.

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