

Technical Data Sheet

DermaGlo[™] DGP-20 Phosphorescent Pigment

General description

DermaGlo DGP-20 is a phosphorescent pigment that meets the purity specifications outlined by US FDA (Consult 21CFR73.2995 for specifications and use restrictions).

This phosphorescent material responds quickly to excitation by daylight, incandescent, fluorescent or ultraviolet light and produces a bright green emission color. The afterglow effect is dependent on pigment concentration, surface area and the amount of radiant energy absorbed.

Applications

- Lip sticks
- Lotions and soaps •
- Bath bombs
- Personal care products
- Makeup

Available Colors

Product Code	Color	
DGP-20	NightGlo	
Packaging:		
2 Gallon Pail = 5 Lb		
5 Gallon Pail = 44 Lb		

1 Box = 44 Lb

Storage & shelf life:

120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties		
Colorant INCI Name: Luminescent Zinc Sulfide		
Delivery form	Powder	
Emission color	Green	
Daylight body color	Slightly Yellow	
Average particle size	± 20 μm	
Density	4.1 g/cm ³	
Mohs hardness	3.0	

Disclaimer: Our technical advice, information, statements, whether given verbally, in writing, or in the form of test results, is offered for your guidance without warranty. No warranty for fitness for a particular purpose is made. This also applies where protective rights of third parties are involved. It does not release the user from obligation to test the suitability of the products and formulas for the intended process and applications. Our guarantee is limited to the consistent quality of our product.



Usage

4.

The color additive luminescent zinc sulfide may be safely used for coloring externally applied facial makeup preparations and nail polish to the following restrictions:

- 1. The amount of luminescent zinc sulfide in facial makeup preparations shall not exceed 10 percent by weight of the final product.
- 2. Facial makeup preparations containing luminescent zinc sulfide are intended for use only on limited, infrequent occasions, e.g., Halloween, and not for regular or daily use.
- 3. Do not use in the area of the eye.

Article 2 (1) (m) of EU Regulation 1223/2009, known as the Cosmetics Regulation defines colorants as "substances which are exclusively or mainly intended to color the cosmetic product, the body as a whole or certain parts thereof, by absorption or reflection of visible light; in addition, precursors of oxidative hair colorants shall be deemed colorants".

As indicated above, any substance within the meaning of a colorant in cosmetics must be listed in Annex IV to the Cosmetics Regulation. Importantly, however, Recital 27 of the Cosmetics Regulation explains that: "To avoid ambiguities, it should be clarified that the list of allowed colorants contained in Annex IV includes only substances which color through absorption and reflection and not substances which color through photoluminescence, interference, or chemical reaction."

Considering that DGP-20 colors through photoluminescence, it is not caught by the definition of a colorant in accordance with the Cosmetics Regulation. As a consequence, it is not subject to Annex IV to the Cosmetics Regulation establishing a positive list of colorants in cosmetic products.

On this basis, we believe that the use of DGP-20 in cosmetic products must be considered as an ingredient that is not prohibited or restricted and does not correspond to an ingredient category for which a positive listing would be required, including colorants. Therefore, pursuant to the EU Cosmetics Regulation the use of DGP-20 in cosmetic products is permitted provided it is demonstrably safe.