Dry Vitamin D_3 50 GFP

BASF
The Chemical Company

Chemical name of active ingredient
Cholecalciferol

CAS-No.	67-97-0
EINECS-No.	200-673-2

PRD-No.
30235889*

* The product is kosher.

Article

56682956	25 kg bag in box

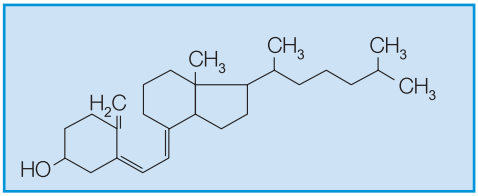
Country of origin
Denmark

Units
1 International Unit (IU) = 0.025 µg vitamin D_3

Description
Free-flowing, white to off-white powder, consisting of spherical particles.

Composition
Ingredients in descending order of weight: sucrose, gum arabic, corn starch, medium-chain triglycerides, tricalcium phosphate, vitamin D_3 (cholecalciferol), DL-alpha-tocopherol.

Solubility
The product can be dispersed even in cold water with temperatures as low as 10 °C, to form a stable milky emulsion. Practically no vitamin D can be extracted from the powder with ether.



$C_{27}H_{44}O$ **Molar mass 384.7 g/mol**

Specification

Assay	min. 50,000 I.U. vitamin D_3/g (= 1,250 µg cholecalciferol/g)

For further information see separate document: “Standard Specification” (not for regulatory purposes) available via BASF’s WorldAccount: https://worldaccount.basf.com (registered access).

Monographs
The active ingredient complies with the current “Cholecalciferol” Ph. Eur. and “Cholecalciferol” USP monographs.

Regulations
The product meets the regulatory requirements for a vitamin D source in most countries. However, regulations on the ingredients used in the respective countries and for the intended use have to be observed.

Bulk density
Approx. 0.6 g/ml

Stability
The product is stabilized with DL-alpha-tocopherol (E307). The stability of the vitamin D_3 both in the original container, in food products and tablet formulations to which the product has been added is very good.

Stored in its unopened original packaging at room temperature (max. 25 °C), the product is stable for at least 24 months.

Storage/Handling
The product should be stored in the original packaging at room temperature (max. 25 °C), in a dry place.

Applications
Food products:
The product is particularly suitable for the fortification of foods including food for babies and children, dietetic products, milk powder, and vitamin mixtures. Regulatory provisions for the use of tricalcium phosphate in the different product categories have to be considered. In the EU, the application in infant foods is limited to fortification with DHA and calcium. Furthermore, the maximum level of acacia gum in the final infant nutrient preparation has to be considered. The product is gelatin-free and particularly suitable for vegetarian foods.

Dietary supplements:
This dry powder has been developed in order to provide an improved content uniformity of vitamin D_3 in tablets.

Note
Dry Vitamin D_3 50 GFP must be handled in accordance with the Safety Data Sheet.

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