Dry Vitamin A-Palmitate 500

**Chemical names of active ingredient**
Retinyl palmitate, all-trans retinol palmitic acid ester

<table>
<thead>
<tr>
<th>Chemical names</th>
<th>CAS-No.</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Retinyl palmitate</td>
<td>79-81-2</td>
<td>201-228-5</td>
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**PRD-No.**
30041047

**Article**
50048562 25 kg bag in box

**Country of origin**
Denmark

**Units**
1 International Unit (IU) = 0.550 µg vitamin A-palmitate

**Description**
Free-flowing, light-yellow powder, consisting of spherical particles.

**Composition**
Ingredients in descending order of weight:
- vitamin A-palmitate
- sucrose
- modified starch
- gelatin
- t-butyl-hydroxytoluene (BHT)
- sodium aluminum silicate

**Solubility**
Dispersible in warm water (35 – 40 °C), to form a milky emulsion.

**Specification**

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<th>Assay</th>
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<td>min. 500,000 IU vitamin A (= 150,000 RE) per gram</td>
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**Monographs**
The product complies with the current “Vitamin A concentrate (powder form), synthetic” Ph. Eur. and “Vitamin A” USP monographs.

**Regulations**
The product meets the regulatory requirements for a vitamin A 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 BHT (E321). The stability of the vitamin A in the dry powder is excellent even in the presence of minerals. The product is resistant to pressure and very little vitamin A is expressed during tabletting, thus resulting in good stability of the tablets.

Stored in its original packaging in a cool (8 – 15 °C), dry place, the product is stable for at least 24 months.

**Storage/Handling**
As vitamin A is sensitive to atmospheric oxygen, light, moisture, and heat, the product should be stored in the original packaging in a cool (8 – 15 °C), dry, and dark place.

It is recommended to use up the remaining contents quickly once the package has been opened.
Applications

**Dietary supplements:**
Should the product be subject to severe strain during processing or storage, it is recommended to use the palmitate version of the vitamin. Since the palmitate contained in vitamin A is the ester with the best resistance to hydrolysis, vitamin A-palmitate is recommended particularly for preparations with a high moisture content as well as preparations, which will be stored in environments with a high relative humidity. It is equally suitable for use in multivitamin/mineral tablets and hard gelatin capsules.

**Note**
Dry Vitamin A-Palmitate 500 must be handled in accordance with the Safety Data Sheet.

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