

# PowerSorb™ 3049

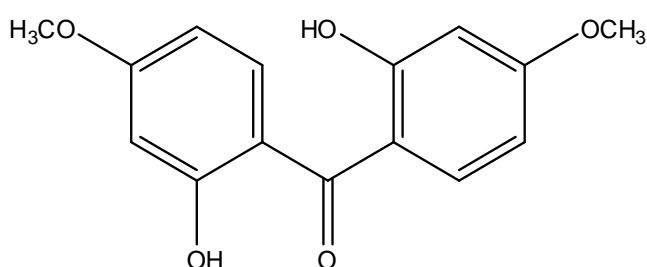
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## Chemical Name

2,2-Dihydroxy-4,4-dimethoxybenzophenone

## Chemical Structure



## Introduction

PowerSorb™ 3049 is an efficient UV absorber for polyester film, which it protects from premature damage, particularly under severe exposure conditions.

## Physical Properties

CAS No.	131-54-4
EC No.	205-027-3
Formula	C <sub>15</sub> H <sub>14</sub> O <sub>5</sub>
Molecular Weight	274
Density [25°C, g/cm <sup>3</sup> ]	1.34
Melting Point	129-139°C
Volatile(%)	Max.2.00
K Value	Min.49.00
Appearance	Pale Yellow Powder
Min. Purity	94%

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Solubility (20°C)	% w/w
Methanol	<1
Ethyl acetate	5
Methyl ethyl ketone	5
Toluene	5
Water	<0.01

## Applications

The polyester film can be treated by applying a hot solution of PowerSorb™ 3049 in a polyhydric alcohol. The transmittance of film treated in this manner is greatly reduced for light of wavelengths less than 400 nm, thus allowing the film to be used as a UV filter.

Other fields of application are:

- Allyl carbonate (spectacle lenses, 0.3 %)
- Rubber
- PUR furniture paints and varnishes (0.50 –1.00%)
- Textile industry (as a light stabilizer that is taken up by the fibres in the dye bath).
- Photographic emulsions
- Acrylic resins, Alkyd resins, Epoxy resins, Phenolic resins
- Cellulose nitrate
- Fluorescent pigments
- PUR systems, Oil paints, Polymer dispersions

## Handling and Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate

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ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

## Packing

PowerSorb™ 3049 is supplied in 20kg drum.

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