

# PowerSorb™ 3638 UV Absorber

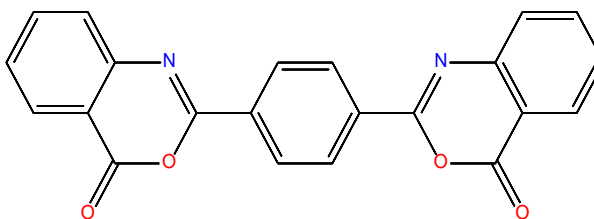
**Introduction** PowerSorb™ 3638 is a highly efficient and non-staining UV absorber.

**Chemical Name** 2,2'-(1,4-Phenylene)bis(4H-3,1-benzoxazin-4-one)  
Synonym: 2,2'-Benzene-1,4-diylbis(4H-3,1-benzoxazin-4-one)

**CAS Number** 18600-59-4

**EINECS Number** 418-280-1

**Chemical Structure**



**Chemical Formula**  $C_{22}H_{12}N_2O_4$

**Molecular Weight** 368

**Physical Properties**

Appearance	Off-white to Pale Yellow Powder
Bulk Density [20°C]	0.52
Melting Point (°C)	Min.310
Volatile Loss (%)	Max.0.5
Color (YI, 2g sample)	Max.4
Color(APHA)	Max.30
Odor	None
Color of Solution 460nm (%)	Min.98.0
Color of Solution 500nm (%)	Min.99.0
Ash (%)	Max. 0.10
Purity (%)	Min.98

## PowerSorb™ 3638 UV Absorber

### Solubility

Solubility [20°C]	% w/w
Ethanol	<1
Methyl ethyl ketone	<1
Ethyl acetate	<0.1
DMF	2
Water	<0.01

### Benefits & Applications

PowerSorb™ 3638 is made to dissolve quickly in PET resin and to give a transparent appearance even with high dosage.

PowerSorb™ 3638 is ideal for film/sheet/plate applications such as solar cell, window film, etc.

PowerSorb™ 3638 is registered on FDA and is approved for food contact applications such as PET bottles and food wrap films.

### Handling & 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 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™ 3638 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.

### Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.



## **PowerSorb™ 3638 UV Absorber**

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.