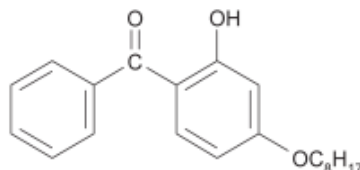


# PUREsorb 531

## Benzophenone UV Absorber

**Description** **PUREsorb 531** is an ultraviolet light absorber (UVA) of the benzophenone class, imparting good light stability when used in combination with a hindered amine light stabilizer (HALS). It shows good compatibility with polyolefins and plasticized PVC.

**Chemical Structure**



**Chemical name** 2-Hydroxy-4-n-Octoxybenzophenone

**CAS number** 1843-05-6                      **Molecular weight** 326.4 g/mol

**Features & benefits** **PUREsorb 531** is particularly suitable for thick films, typically > 100 µm and thick sections. The low vapor pressure of **PUREsorb 531** prevents losses during processing. Low migration rates reduce the risk of blooming.

**Application** The main application of **PUREsorb 531** is in combination with a HALS for the light stabilization of LDPE, LLDPE as well as EVA copolymers for agricultural films. It can also be used as a UV barrier to protect the contents of packages for both industrial and consumer applications. It is also suitable for HDPE moulded articles, e. g. in crates, and plasticized PVC and rubbers.

It can be used in combination with antioxidants, phosphites and other light stabilizers. For the use of **PUREsorb 531** in thick sections, a proper UV stabilization can be achieved in PE with concentration of 0.10 – 0.5%. With films, the UV stabilizations of LLDPE, LDPE and EVA require 0.15 – 0.5%.

**Handling & Safety** 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. Prevent contamination of the environment. Avoid dust formation and ignition sources. For more detailed information please refer to the SDS.

**Storage** **PUREsorb 531** has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

**Physical Properties:**

Product form	Pale cream to light yellow powder
Melting range	47 - 49°C
Specific gravity (20°C)	1.16 g/cm <sup>3</sup>
Vapor pressure (20°C)	4.6 E-7 Pa
Bulk density (g/l)	Powder: 360 – 440; Pellets: 440 - 540

## TECHNICAL DATA SHEET

Polygel Product Management

Email: [info@polygelbrunei.com](mailto:info@polygelbrunei.com)



Solubility (20°C) g/100g solution		Solubility (20°C) g/100g solution	
- Acetone	43.0	- Chloroform	61.0
- Ethyl-acetate	44.0	- Ethanol	3.5
- Methanol	1.7	- n-hexane	12.0
- Dichloromethane	67.0	- toluene	> 50
- Water	< 0.01		

**IMPORTANT:** The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for the intended conditions of use. The product(s) has (have) not been tested for, and is (are) therefore not recommended for uses for which prolonged contact with mucous membranes, abraded skin or blood is intended, or for uses for which implantation within the human body is intended.

November' 2019