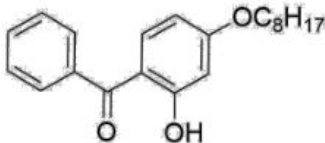


UV Absorber UV-531

UV-531 is a benzophenone-based ultraviolet absorber characterized by excellent compatibility with various systems and high solubility. It is primarily formulated as a composite with hindered amines to be used in low-density polyethylene (LDPE), linear low-density polyethylene (LLDPE), and EVA copolymers for agricultural films. Additionally, it can function as a photostabilizer to protect the contents of industrial and consumer packaging materials, as well as to retard the degradation of other polymer types—such as plasticized PVC and rubber—caused by exposure to sunlight. UV-531 can be used in combination with antioxidants and phosphites. It is also recommended for use in wood coatings and general industrial paints, providing effective photostabilization that mitigates aging phenomena such as discoloration, loss of gloss, and cracking in these coatings.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Name	2-Hydroxy-4-octoxybenzophenone
CAS No.	1843-05-6
Chemical constitution	
Formula weight	326

1.2 Technical parameter

Test item	Parameter
Appearance	Light yellowish-green crystal powder
Content	≥99.0
Melting range °C	47-50
Ash %	≤0.1
Transmittance,% at 460 nm	≥96.0
Transmittance,% at 500 nm	≥97.0
Heating loss %	≤0.5

1.3 Solubility (20 °C, g/100 mL solvent)

Solvent	Solubility
Acetone	>50g
Methyl n-pentanone (Mak)	>50g
Methyl ethyl glycol acetate	>50g
Diethylene glycol butyl ether	36g
N-hexane	12g
Chloroform	61g
Methanol	2g
Methylbenzene	>50g
Dimethylbenzene	>50g
100# solvent oil	>50g

Solvent	Solubility
Butyl acetate	>50g
Alcohol	3g
Water	< 0.01g
Ethyl acetate	44g
Chloromethane	67g

2. Operation and safety

1. This product is a general-purpose plastic additive; it can be handled in accordance with standard chemical raw material operating procedures.
2. Avoid generating large amounts of dust; ensure the workshop is well-ventilated and kept away from open flames and high-temperature heat sources;
3. Personal protection: Wear a dust-proof mask and nitrile protective gloves;
4. For complete information on first aid, leakage, storage, and transportation, and hazard details, please refer to the accompanying SDS (Safety Data Sheet).

3. Storage and transportation

1. Store in a cool, dry, and well-ventilated warehouse; avoid direct sunlight, exposure to rain, and moisture.
2. Store separately from strong oxidizing agents, strong acids, and strong alkalis;
3. The original factory-sealed product has a shelf life of 24 months at room temperature; once opened, it should be used as soon as possible to prevent moisture absorption and clumping.