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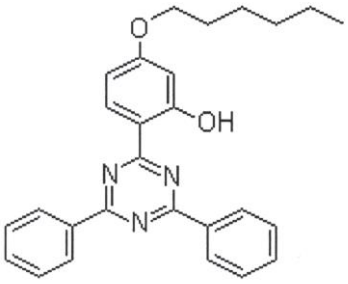
K.SORB 1577

Low Volatile Hydroxyphenyl-Triazine UV Absorber

Technical Data Sheet

CHEMICAL NAME	2-(4,6-Diphenyl-1,3,5-triazin-2-yl)5-hexyloxy phenol
CAS NUMBER	147315-50-2
EINECS NUMBER	411-380-6
MOLECULAR FORMULA	$C_{27}H_{27}N_3O_2$
STRUCTURE	
MOLECULAR WEIGHT	425 g/mol

CHARACTERIZATION

K.SORB 1577 represents a new class of UV absorber exhibiting very low volatility and good compatibility with a variety of polymers, co-additives and resin compositions. It allows polycarbonates and polyesters to achieve a higher resistance to weathering than conventional benzotriazole UV absorbers.

PHYSICAL PROPERTIES

Appearance		Yellowish powder
Purity		≥ 98.5% by HPLC
Volatile matter		≤ 0.5%
Melting point		147-151°C
Ash content		≤ 0.1 %
Transmittance	450nm	87.0% min
	500nm	98.0% min
Heat stability (250°C) at	450nm	80.0% min
	500nm	90.0% min

PACKAGING

K.SORB 1577 is supplied in 25 Kg net carton or paper drums

REGULATORY CLEARANCE STATUS

K.SORB 1577 is approved in many countries for use in food contact applications. Detailed information available upon request.

STORAGE/HANDLING

In accordance with good industrial practice, handle with care and prevent contamination if the environment. Avoid dust formation and ignition sources.
For detailed information on toxicity, Storage and handling please refer to the relevant Material Safety Data Sheet.

APPLICATION

K.SORB 1577 applications include polyalkene terephtalates and naphthalates, linear and branched polycarbonates, modified polyphenylene ather compound, and various high performance platics.
The use of **K.SORB 1577** is indicated in polymer blends & alloys, such as PC/ABS, PC/PBT, PPE/IPS, PPE/PA and copolymers as well as in reinforced, filled and/or flame retarded compounds, which can be transparent, translucent and/or pigmented. Its very low tendency to chelate allows K.SORB 1577 formulations in polymers containing catalyst residues.

ADDITION LEVELS

K.SORB 1577 (0.2-6% by weight) can be readly incorporated into the polymer by using conventional techniques, e.g. powder, solution, or melt blending.

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