

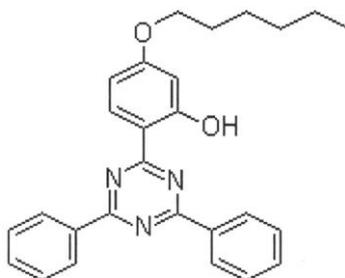
Technical Data Sheet

Rev. 2 - Data rev. 01/2015

K.SORB 1577

Low Volatile Hydroxyphenyl-Triazine UV Absorber

<u>CHEMICAL NAME</u>	2-(4,6-Diphenyl-1,3,5-triazin-2-yl)5-hexyloxy phenol
<u>CAS NUMBER</u>	147315-50-2
<u>EINECS NUMBER</u>	411-380-6
<u>MOLECULAR FORMULA</u>	C ₂₇ H ₂₇ N ₃ O ₂
<u>STRUCTURE</u>	



<u>MOLECULAR WEIGHT</u>	425 g/mol
-------------------------	-----------

<u>CHARACTERIZATION</u>	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.
-------------------------	--

<u>PHYSICAL PROPERTIES</u>	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

<u>PACKAGING</u>	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 of 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 terephthalates and naphthalates, linear and branched polycarbonates, modified polyphenylene ether compound, and various high performance plastics.

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 readily incorporated into the polymer by using conventional techniques, e.g. powder, solution, or melt blending.

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments. Neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom K Chimica supply their own products to ensure that any proprietary rights or patents and existing laws and legislation are observed. The product has not been tested for, and is 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.