UV Sorb HLF

1) Product Description

Dyeing and printing of polyester fibers, modified polyester fibers and their blends that are exposed to critical light and heat conditions, for example car upholstery and interior trim and other items, such as safety belts, etc. **UV Sorb HLF** is suitable for HT exhaust application

2) Properties

Chemical constitution	:	Dispersant-containing preparation of triazine Derivatives
Ionic character	:	Anionic
pH of 5% solution	:	7.0–9.0
Physical form	:	White dispersion with low viscosity
Specific gravity at 20°C	:	about 1.04
Viscosity (D= 100) 20°C	:	about 150 mPa. s
Storage stability	:	Stable for 1 year at 20°C in closed containers; not sensitive to freezing or heat
General Stability	:	Stable in hard water and to acids, alkalis in the pH values between 4 and 10
Compatibility	:	Can be used together with anionic and non-ionic products
Ecology/toxicology	:	The usual hygiene and safety rules for handling chemicals should be observed in storage, handling and use. The product must not be swallowed

3) Application

UV Sorb HLF is added to the liquor at the start of the dyeing cycle and applied by the HT exhaust

3.1) Dissolving/diluting

The product must be thoroughly stirred before removal from the container.

3.2) Exhaust method

1.5–6% **UV Sorb HLF** (calculated on the weight of the goods)

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Suggested recipes:-		
Exhaust method	X%	Impexial dye
	1gp/l	Dyesol DPA Liq.
	1 g/l	Ammonium sulfate
	Y g/l	Terrydye TGEA Supra
	1.5–6%	**UV Sorb HLF**
	pH	5 with acetic acid
	Liquor ratio	5:1 - 10:1

4) Advantage

4.1) Counteracts photochemical fiber and dye degradation, especially on long-term exposure to light and heat

4.2) Safe fulfillment of light fastness requirements even after post-setting and molding processes. Fast to sublimation, no tendency to fogging

4.3) Reduced effluent load

4.4) Full absorption of UV rays hence maximum light fastness, functionality and stability of polyester fibers

4.5) In HT dyeing processes, the product is completely picked up by the polyester material and builds up to levels of UV absorption never realized before - thus showing a much more pronounced effect in reducing color fade

4.6) Uniform dispersion, even at high bath heating rates and under unfavorable dyeing conditions like package dyeing. Terrydye TGEA Supra, a specifically developed dispersing/leveling agent, is especially recommended to assist in such cases

5) Characteristics

5.1) Triazine chemistry - known for best UV stability there is
5.2) Outstandingly stable to heat and light
5.3) AOX-free product
5.4) Highest extinction rates over a wide range of UV rays
5.5) High affinity for the polyester fiber and outstanding build up behavior
5.6) Fine particle size with remarkable dispersion stability properties
5.7) Fully compatible with our recommended, Impexial dyes. Especially well suited for combinations with the best hot-light fast Impexial HL and HLF dyes
5.8) Versatile product
5.9) Stable to alkaline conditions
5.10) Has no intrinsic color when applied in exhaust process
5.11) Low viscosity and good storage stability

6) Note

6.1) Correct dye selection is essential to achieve maximum light fastness properties. Dyes recommended for car textiles can be found in the appropriate pattern cards for Impexial HL/HLF dyes

6.2) The effects attainable depend on the type of polyester fiber (texture, amount of de-lustrant, denier and cross section), the dyes used and the individual shade

6.3) For shading additions and for re-dyeing an addition of about 20% of the origin amount of UV absorber is required

7) Safe use and handling

Good hygienic and industrial practices should be followed and, when employed as recommended, **UV Sorb HLF** will not present any hazard. However, prolonged skin contact with the neat product should be avoided and any splashes on the skin should be washed off with water.

The information herein is, to the best of our knowledge, correct and complete. It is based not only on the work in our laboratory but also on the reported results of other workers in this field. It is offered without guarantee of specific properties and no patent liability is assumed. No liability can be accepted for any loss, injury or damage resulting from its use.