

## OPTICELL HW (HEXASULFONATE)

**Opticell HW** is a hexasulfonate optical brightener developed specially to be applied superficially in size-press systems or in formulations for paper sheet coating. It is not suitable to apply in mass because of its affinity to cellulose fiber, main characteristic of hexasulfonate optical brighteners.

**Opticell HW** has a great ultraviolet light absorption capacity at 370 nm of the light spectra which is re-emitted at 435 nm. This effect is taken to increase the whiteness in papers with coating formulations and blends used in size-press or similar surface application systems.

### Properties

<i>Appearance:</i>	Yellowish brown to reddish liquid.
<i>Chemical nature:</i>	4,4' diamine, stilbene 2,2' disulfonic acid, derivative.
<i>Ionic character:</i>	Anionic
<i>Density:</i>	1.05 -1.10 g/cm <sup>3</sup> at 25 °C
<i>pH :</i>	7.5 – 10.0
<i>Solubility:</i>	Miscible in water.
<i>Viscosity :</i>	< 100 CPS at 25°C

### Applications

**Opticell HW** is recommended only for surface applications, at size-press systems or laminar applications systems by transfer.

- Develop high values of whiteness.
- Compatible with starch base, CMC, Polyvinyl alcohol, alginates washes or mixtures among themselves, which issue as carriers.
- With coating formulations, it increases the whiteness of them and the paper surface.
- Recommended dosage: 0.1 – 2.0% on dry paper.
- It has a work range in pH values between 6.0 – 12.0 for low, medium, and high whiteness.
- It has affinity to fiber but develop superficially high values of whiteness.
- It is compatible with pigments or dyestuffs to get the desired shade grade.
- It has good acid and alkali fastness.

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## **Toxicology**

The toxicological assays obtained with **Opticell HW** show that the products is not a health hazardous matter. The trials include an acknowledgment of tolerability in skin mucous membranes and sensitive areas. The normally found quantities in the effluent do not damage fishes. Similarly, they do not inhibit the activated mood functions in biological water treatment plants.

## **Packaging and Storage**

**Opticell HW** is not classified as hazardous. These products should be stored in fresh areas, where there is any direct contact with sunlight. Avoid store with foodstuffs.

**Packing:** 1,000 Kg containers.

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