

TECHNICAL DATA SHEET

Elix-SUN A Plus

INCI Diethylamino Hydroxybenzoyl Hexyl Benzoate

CAS 302776-68-7



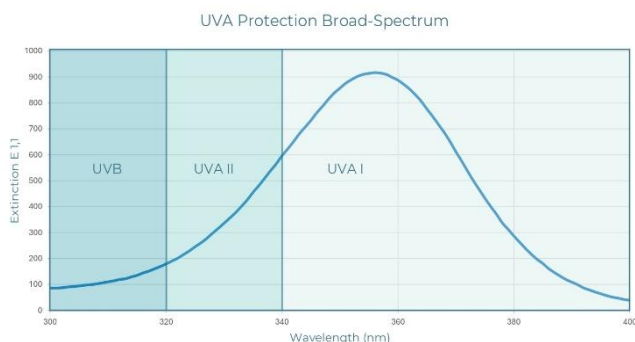
SPECIFICATIONS

Appearance	White to off-white crystal powder
Purity (%) (HPLC area/357nm)	99.5 min.
Melting Point (°C)	54.0 min.
Identification (UV)	352 – 356 nm
Specific Extinction in Ethanol (E1/1cm)	910 – 940
Phthalates (ppm)	0.2 max.

GENERAL INFORMATION

Elix-Sun A Plus is high purity grade of DHHB. It is an effective UVA filter and is photostable, providing reliable and long lasting protection.

UVA light represents approximately 95% of total solar UV radiation and can penetrate deep into the layers of the dermis. UVA can stimulate the production of free radicals and although it is responsible for various skin damage such as aging, allergenic reactions, hyperpigmentation, cancer risk, it is often found difficult to provide adequate, reliable and long-lasting UVA protection in cosmetic products.



FORMULATION AND RECOMMENDATIONS

Elix-SUN A Plus is easy to process due to its low melting point and high solubility in common oils. It has good compatibility with other UV filters (organic or mineral) and cosmetic ingredients.

Recommended concentration

0.5 – 10.0%

Max concentration allowed is 10.0 %

Solubility

Solubility into Triethyl Citrate is excellent. Solubility into Dicaprylyl Carbonate and C12-15 Alkyl Benzoate is good.

BENEFITS

- Prevents premature aging and skin damage
- Excellent protection against free radicals
- UVA protection (helps achieve UVA-PF/SPF $\geq 1/3$)
- Reliable and long-lasting protection
- Preservative free

APPLICATIONS

Cosmetics

- Sun care
- Skin care
- Makeup
- Baby care

SHELF LIFE

36 months under proper storage conditions

REGULATORY

Origin / Nature	Synthetic
Halal	Approved
Kosher	Approved
Vegan	Approved

PACKAGING

25 kg bag