



## UV-Shield NA-1

Multifunctional UV Absorber & Antioxidant Booster

### Product Overview

UV-Shield NA-1 acts as both an antioxidant booster and UV absorber, enhancing SPF-UVA protection and stabilizing UV filters and actives, extending their shelf life. NA-1 is naturally derived and 100% biodegradable, making it a multifunctional ingredient in sunscreens, skincare, UV-resistant coatings, and fabrics.

### Specifications

<b>Purity, wt%</b>	98.00 min
<b>Total Aerobic microbial count (cfu/g)</b>	1,000 max.
<b>Total molds &amp; yeast count (cfu/g)</b>	100 max
<b>E. coli (10g)</b>	negative
<b>Loss on Drying, wt%</b>	0.50 max
<b>Residue on Ignition, wt%</b>	0.20 max
<b>Heavy Metals, ppm (Pb, As, Cd, Hg)</b>	<2.0
<b>Appearance</b>	White to slightly off-white crystalline powder.

### UV Performance & Functionality

UV-Shield NA-1 strongly absorbs UV radiation, particularly in the 284, 307 & 316 nm range (UVB-UVA). When incorporated into sunscreens or coatings, it directly filters UV rays before they penetrate deeper layers. It neutralizes reactive oxygen species (superoxide & peroxy radicals), mitigating radical chain reactions. NA-1 improves SPF and UVA-PF values while stabilizing other UV filters in formulation.

### Additional Applications

- In UV-curable polymers: Scavenges free radicals, improving stability.
- Offered in synthetic version.
- Suitable for use in coatings, cosmetics, fabrics and more.

### Packaging & Storage

Packaged in 20kg fiber drums.

Shelf life: 1 year (unopened, room temp). Protect from heat, light, moisture, and oxygen.

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