

Tinuvin[®] 292 HP

Product Description

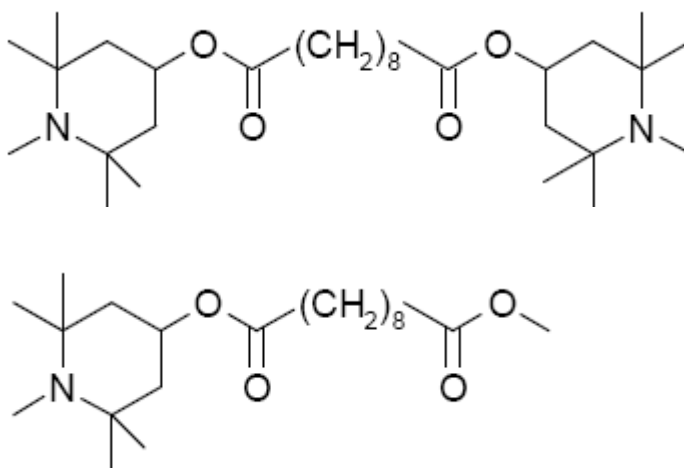
Tinuvin 292 HP is a liquid hindered amine light stabilizer especially developed for color sensitive coating applications.

Key Features & Benefits

- Versatile HALS with superior performance in both water- and solvent-based coatings
- Extends usable lifetime of coating by minimizing loss of gloss and cracking
- Excellent compatibility with a wide variety of coatings systems

Chemical Composition

Blend of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate



Properties

Typical Properties

| | |
|--|--|
| Appearance | colorless to slightly yellow liquid |
| CAS number | preparation |
| Molecular weight | mixture |
| Dynamic Viscosity at 20°C | 400 cps |
| Miscibility at 20°C (g/100 g solution) | > 50% with most commonly used paint solvents < 0.01% with water |

These typical values should not be interpreted as specifications.

Applications

Tinuvin 292 HP is a very pure mixture of two active ingredients that help maintain this products' liquid state. It provides significantly extended lifetime to coatings by minimizing paint defects such as cracking and loss of gloss without adding additional color to the formulation.

Tinuvin 292 HP is recommended for applications such as:

- Automotive coatings (non-acid catalyzed), especially refinish coatings
- Color sensitive durable industrial coatings
- Energy curable coatings (with no loss of cure speed)
- Adhesives

Its high efficiency has been demonstrated in coatings based on a variety of binders such as:

- One- and two-component polyurethanes (water and solvent)
- Thermoplastic acrylics (physical drying)
- Thermosetting acrylics, alkyds and polyesters
- Alkyds (air drying)
- Waterborne acrylics
- Phenolics, vinylics
- Energy curable acrylics

Processing

The dispersion of Tinuvin 292 HP in waterborne coatings may be facilitated by dilution with a water-miscible solvent such as butyl Carbitol¹.

The performance of Tinuvin 292 HP can be significantly improved when used in combination with a UV absorber such as those recommended below. These synergistic combinations give coatings superior protection against gloss reduction, cracking, blistering, delamination and color change.

Light stabilizers may be added in two-coat automotive finishes to the base and clear coat. However, according to our experience the optimum protection is usually achieved by adding light stabilizers to the topcoat.

Possible interactions of Tinuvin 292 HP with paint ingredients such as acid catalysts should be carefully evaluated.

Recommended concentration

The amount of Tinuvin 292 HP required for optimum performance should be determined in laboratory trials covering a concentration range.

| | | |
|--|------------------------------|---|
| Clear coats & One-coat metallic shades: | 0.5 – 2 % | Tinuvin 292 HP |
| | + | |
| | 1 – 3 % | Tinuvin 1130, Tinuvin 384-2, Tinuvin 928, or Tinuvin 400 |
| One-coat solid shades: | 0.5 – 2 % | Tinuvin 292 HP |
| | alone or in combination with | |
| | 1 – 3 % | Tinuvin 1130, Tinuvin 384-2, Tinuvin 928, or Tinuvin 400 |

(concentrations are based on weight percent binder solids)

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Tinuvin 292 HP.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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