

PowerSorb™ 400 UV Absorber

Introduction

PowerSorb™ 400 is a liquid hydroxyphenyl-triazine (HPT) UV absorber designed to fulfill the high performance and durability needs of solventborne, and 100% solids automotive and industrial finishes. Its low color and stability make it an excellent choice for all coatings where low color characteristics are ideal.

Chemical Name

Reaction products of 2-(4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl)-5-hydroxyphenol with ((C10-16, rich in C12-13 alkyloxy)methyl)oxyrane

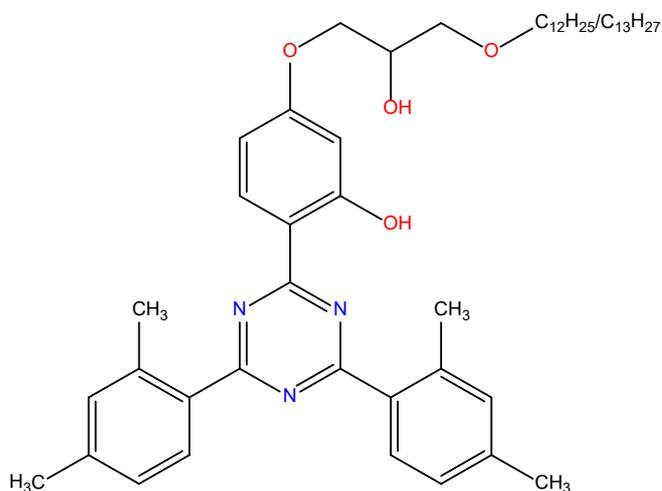
CAS Number

153519-44-9

EINECS Number

410-560-1

Chemical Structure



Chemical Formula

$C_{81}H_{108}N_6O_8$

Molecular Weight

647

Physical Properties

Appearance	Light yellow viscous liquid
Density (g/cm ³)	1.07

PowerSorb™ 400 UV Absorber

Solubility

Miscible with most customary organic solvents; practically immiscible with water.

Benefits & Applications

The key features and benefits of PowerSorb™ 400 contains:

- Hydroxyphenyl-triazine with high absorbance in the UV-B region;
- Low color, low migration;
- Minimal interaction with metal catalysts and amine crosslinkers;
- Excellent photo-permanence.

PowerSorb™ 400 is a liquid hydroxyphenyl-triazine (HPT) UV absorber that provides excellent performance in coatings due to:

- very high thermal stability and performance for coatings exposed to high bake cycles and/or extreme environmental conditions;
- hydroxy functionality to minimize migration;
- high photo-stability for long life performance;
- high concentration for maximum efficiency.

PowerSorb™ 400 has been developed as an interaction-free UV absorber for use in amine and/or metal catalyzed coating systems and coatings applied on base-coats or substrates containing such catalysts.

PowerSorb™ 400 is recommended for solventborne automotive OEM and refinish coating systems, UV cured coatings, and industrial coatings where long life performance is essential. In addition, PowerSorb™ 400 is ideal for exterior construction coatings (roofing, etc.), construction adhesives, and sealants.

The protective effects of PowerSorb™ 400 can be enhanced when used in combinations with a HALS such as PowerSorb™ 123, PowerNox™ 1425 or PowerSorb™ 292. These combinations improve the durability of clear coats by retarding gloss reduction, delamination, cracking, and blistering.

The amount of PowerSorb™ 400 required for optimum performance should be determined in laboratory trials covering a concentration range.

Recommend Concentrations:

PowerSorb™ 400 UV Absorber

1 – 3% PowerSorb™ 400

+

0.5 – 2.0 % PowerSorb™ 123, PowerStab™ 152 or PowerStab™ 292

Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerSorb™ 400 is supplied in 20Kg Plastic Drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.