Sustainable Innovation for a Better Future

PowerCure™ TPO-L Photoinitiator

Introduction

PowerCure™ TPO-L is a liquid photoinitiator for pigmented UV curable coatings for UV stabilized topcoats for outdoor use and printing inks, especially opaque white.

It is a photoinitiator for the UV curing of unsaturated polyesters and resins containing acrylic ester groups. Because of its absorption behavior in the long-wave range of the UV spectrum, it is preferably used to cure pigmented UV curable coatings and surfaces as well as UV stabilized coatings.

It is very easily incorporated into coating formulations. It's good through cure makes it extraordinarily suitable for use in primers and sealers, and its low volatility recommends it for low odor formulations.

Chemical Name

2, 4, 6-trimethylbenzoylphenyl phosphinate
Synonym: Ethyl (2,4,6-trimethylbenzoyl) phenylphosphinate

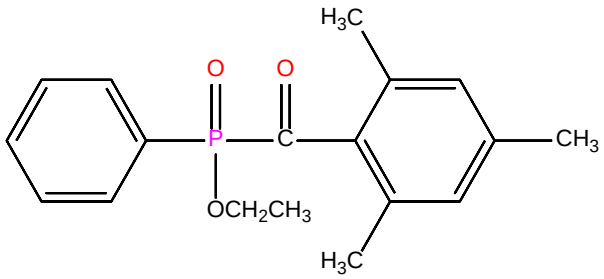
CAS Number

84434-11-7

EINECS Number

213-590-1

Chemical Structure



Chemical Formula

$C_{18}H_{21}O_3P$

Molecular Weight

316.33

PowerCure™ TPO-L Photoinitiator

Physical Properties

Appearance	Yellowish clear liquid
Ignition temperature (°C)	380
Flash Point (°C)	242.87
Specific Gravity [20°C]	1.132
Purity (%)	Min.95

Solubility

Solubility [20°C]	% w/w
n-butyl acetate	50
hexanediol diacrylate	50
tripropylene glycol diacrylate	50

Benefits & Applications

PowerCure™ TPO-L can be used in opaque white printing inks for flexographic, gravure, lithographic, screen, or digital applications.

PowerCure™ TPO-L is suitable for clear overprint varnishes.

PowerCure™ TPO-L can be used in UV curing of coatings for can/coil, general industrial, floor, furniture, millwork, or plastic components applications.

Handling & Storage

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 two years 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

PowerCure™ TPO-L is supplied in a 20Kg 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.

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We disclaim liability for any incidental or consequential damages.