

PowerCure™ 500 Photoinitiator

Introduction

PowerCure™ 500 is a highly effective liquid photoinitiator, used for UV-polymerisation of suitable resins. The low viscosity allows lower of the viscosity of the total formulation. Well suited for water-based formulation.

Chemical Name

Blend of 1-Hydroxy-cyclohexyl-phenyl-ketone (50% PowerCure™ 184) and Benzophenone (50% PowerCure™ BP)

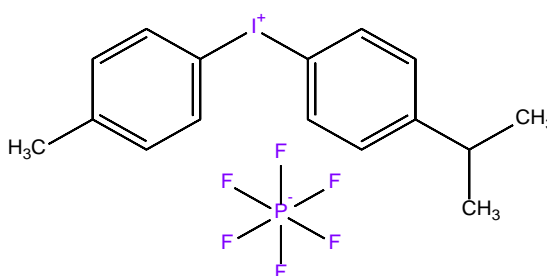
CAS Number

947-19-3, 119-61-9

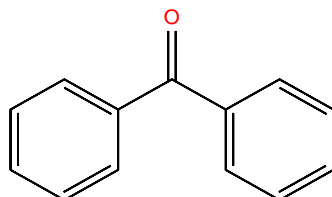
EINECS Number

213-426-9, 204-337-6

Chemical Structure



PowerCure™ 184, CAS No.: 947-19-3



PowerCure™ BP, CAS No.: 119-61-9

Physical Properties

Appearance	Colorless to yellowish clear liquid
PowerCure™ 184 Content (%)	48.5-51.5
PowerCure™ BP Content (%)	48.5-51.5
Transmittance (%) [425nm]	Min.95.0
Transmittance (%) [500nm]	Min.97.0
Specific Gravity (g/cm ³) [20°C]	1.080-1.180

Solubility

Miscibility in most common organic solvents, poorly soluble in water.

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Benefits & Applications

PowerCure™ 500 may be used, after adequate testing, in UV curable coating and ink formulations based on acrylates, for substrates such as paper, wood, metal and plastics.

Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

The amount of PowerCure™ 500 as supplied required for optimum performance should be determined in trials covering a concentration range of 2 – 6 %.

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™ 500 is supplied in 20Kg Drum, 200Kg Drum and 1000Kg IBC.

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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Sustainable Innovation for a Better Future



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