

PowerCure™ 503 Photoinitiator

Introduction

PowerCure™ 503 is particularly indicated for the photo polymerisation of UV curable systems when high reactivity, low curing odour and low yellowing are required. The radical generation occurs via hydrogen abstraction by the action of a co-initiator such as tertiary amines.

Chemical Name

Blend of 2,4,6-trimethylbenzophenone and 4-methylbenzophenone

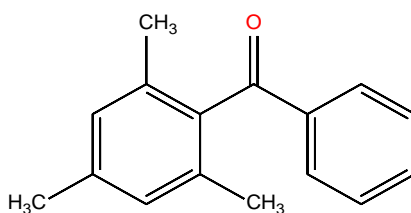
CAS Number

954-16-5, 134-84-9

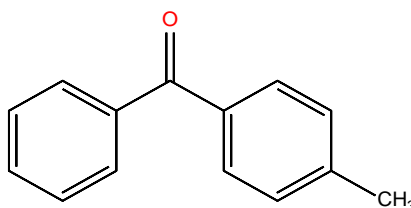
EINECS Number

403-150-9, 205-159-1

Chemical Structure



PowerCure™ TMBP, CAS No.: 954-16-5



PowerCure™ MBP, CAS No.: 134-84-9

Physical Properties

| | |
|----------------------------------|--------------|
| Appearance | Clear liquid |
| Color | Max.80 |
| Volatiles | Max.0.65 |
| Trimethylbenzophenone content(%) | 77.0-88.0 |

Solubility

PowerCure™ 503 is insoluble in water, soluble in most common organic solvents, monomers and oligomers for UV applications.

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Benefits & Applications

PowerCure™ 503 may be used, after adequate testing, in applications such as graphic arts (OPV and printing inks), coatings for flooring and adhesives.

Due to its liquid form, high solubility and compatibility with the various curable systems, PowerCure™ 503 can be easily incorporated by mixing and stirring.

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

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 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

PowerCure™ 503 is supplied in 25Kg 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.

Sustainable Innovation for a Better Future



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