

PowerCure™ 1001M Photoinitiator

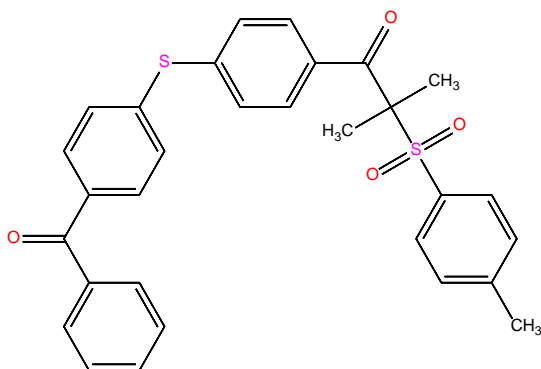
Introduction PowerCure™ 1001M is a difunctional Type II photoinitiator of the ketosulphone class. It is used to initiate radical polymerisation of unsaturated oligomers e.g. acrylates after UV exposure.

Chemical Name 1-[4-(4-Benzoylphenylthio)phenyl]-2-tosyl-2-methyl-1-propanone

CAS Number 272460-97-6

EINECS Number 429-040-0

Chemical Structure



Chemical Formula $C_{30}H_{26}O_4S_2$

Physical Properties

Appearance	Off white to slightly pink powder
Melting Range	Min.100°C
Purity (%)	Min.94

Solubility

Insoluble in water, soluble in most common organic solvents, monomers and oligomers for UV applications.

Benefits & Applications

PowerCure™ 1001M may be used, after adequate testing, in applications like Printing inks such as off-set, flexo, screen, ink-jet inks, Acrylic clear varnishes thin and thick layers and Food Packaging

PowerCure™ 1001M is a high reactive difunctional photoinitiator particularly suitable for pigmented systems.

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Its reactivity is influenced by the presence of co-initiator that contribute to overcome oxygen inhibition too. Due to its molecular structure it is particularly suitable for all systems where low migration and low extraction values are needed (food packaging). Small amount of isopropylthioxanthone (PowerCure ITX) in combination with Esacure 1001 M increases the performance.

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 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™ 1001M is supplied in 15Kg Carton.

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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