

# PowerCure™ 1173 Photoinitiator

## Introduction

PowerCure™ 1173 is a liquid photoinitiator for UV curing acrylic resin for coating wood, metal, paper and plastic...etc. It provides non-yellowing durability and longer shelf life for UV curable systems. It is very suitable for mixing with other photoinitiator.

## Chemical Name

2-Hydroxy-2-Methyl-Phenyl-Propane-1-one

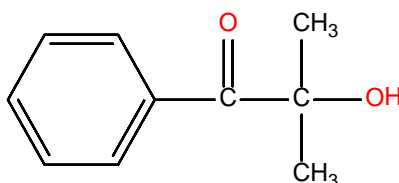
## CAS Number

7473-98-5

## EINECS Number

231-272-0

## Chemical Structure



## Chemical Formula

C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

## Molecular Weight

164.2

## Physical Properties

Appearance	Colorless to yellowish clear liquid
Melting point (°C)	4
Boiling point (°C)	80-81
Flash point (°C)	> 100
Volatiles (%)	Max.0.1
Density (g/cm <sup>3</sup> )	1.08
Viscosity [20°C] (mPa·s)	25
Purity (%)	Min.98.5
Transmittance (10ml 1173/100 ml Toluene)	
425nm	Min.98%
500nm	Min.99%

## Solubility

Soluble in functional monomers insoluble

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### Benefits & Applications

PowerCure™ 1173 may be used for applications such as UV curable clear coatings based on acrylates for paper, metal and plastic materials after adequate testing.

PowerCure™ 1173 is especially easy to incorporate. It is therefore highly suitable for blends with other photoinitiators as a liquid UV curing agent with excellent compatibility.

PowerCure™ 1173 is especially recommended when UV coatings are required to exhibit only minimal yellowing even after prolonged exposure to sunlight.

The amount of PowerCure™ 1173 required for optimum performance should be determined in trials covering a concentration range.

Recommended dosage is 1-4% w/w.

### 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™ 1173 is supplied in a 25Kg 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



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described herein should be verified by testing.

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