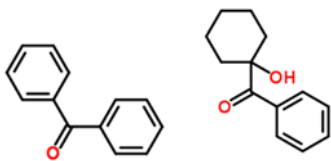


## Product Data Sheet

### General Information

Omnirad 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.

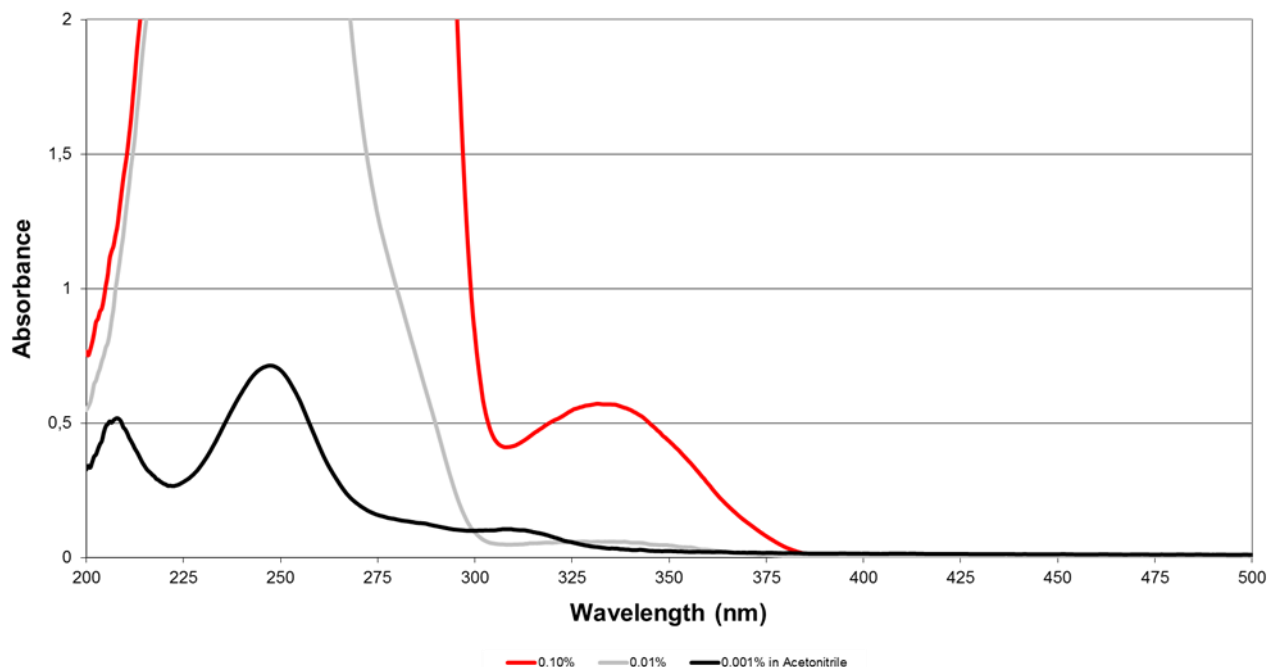
### Chemical Data



**Chemical Name:** Blend of Benzophenone (50%) + 1-Hydroxycyclohexyl- phenyl ketone (50%)  
**CAS No:** 119-61-9 + 947-19-3

### Absorption Spectrum

#### Omnirad 500



## Specification

<b>Appearance</b>	<b>Visual</b>	<b>Colorless to clear pale yellow liquid</b>
<b>Benzophenone content</b>	<b>GC analysis</b>	<b>48.5 - 51.5 %</b>
<b>Omnirad 184 content</b>	<b>GC analysis</b>	<b>48.5 - 51.5 %</b>
<b>Transmittance @ 425 nm</b>	<b>Spectrophotometer, 10g/100ml Toluene</b>	<b>≥ 95.0 %</b>
<b>Transmittance @ 500 nm</b>	<b>Spectrophotometer, 10g/100ml Toluene</b>	<b>≥ 97.0 %</b>
<b>Clarity of solution</b>	<b>Visual, 10g/100ml Toluene</b>	<b>Clear</b>
<b>Specific Gravity @ 20 °C</b>	<b>Weight method</b>	<b>1.080 - 1.180 g/cm3</b>

## Additional Typical Properties

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

## Application

Omnirad 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.

## Recommended Addition levels

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

## Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. Omnirad 500 may stratify if cold. Allow to warm to room temperature and mix well before using. Avoid contact with alkaline additives and water. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 24 months. Omnirad 500 should be handled in accordance with good industrial practice. Further information is provided in the material safety data sheet which is available on request.

## Regulatory Status

All information can be found on MSDS (Material safety data sheet) and RIS (Regulatory Information Sheet) available upon request.

## Packaging

Omnirad 500 is available in 20 and 200 Kg drums and 1000 kg IBC's.

### Disclaimer:

The information presented in this data sheet is given in good faith and is based on the material available to us at the time of writing. The information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any patented invention without a license. It is offered solely for consideration, investigation and verification.

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