

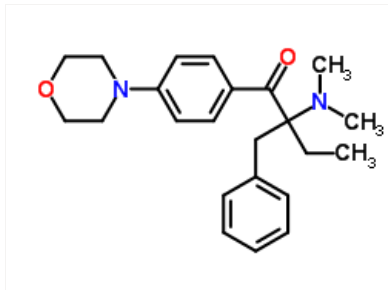
Product Data Sheet

General Information

Omnirad 369 is a highly efficient UV-curing agent used to initiate the photo polymerization of chemically unsaturated prepolymers – e.g., acrylates – in combination with mono- or multifunctional monomers.

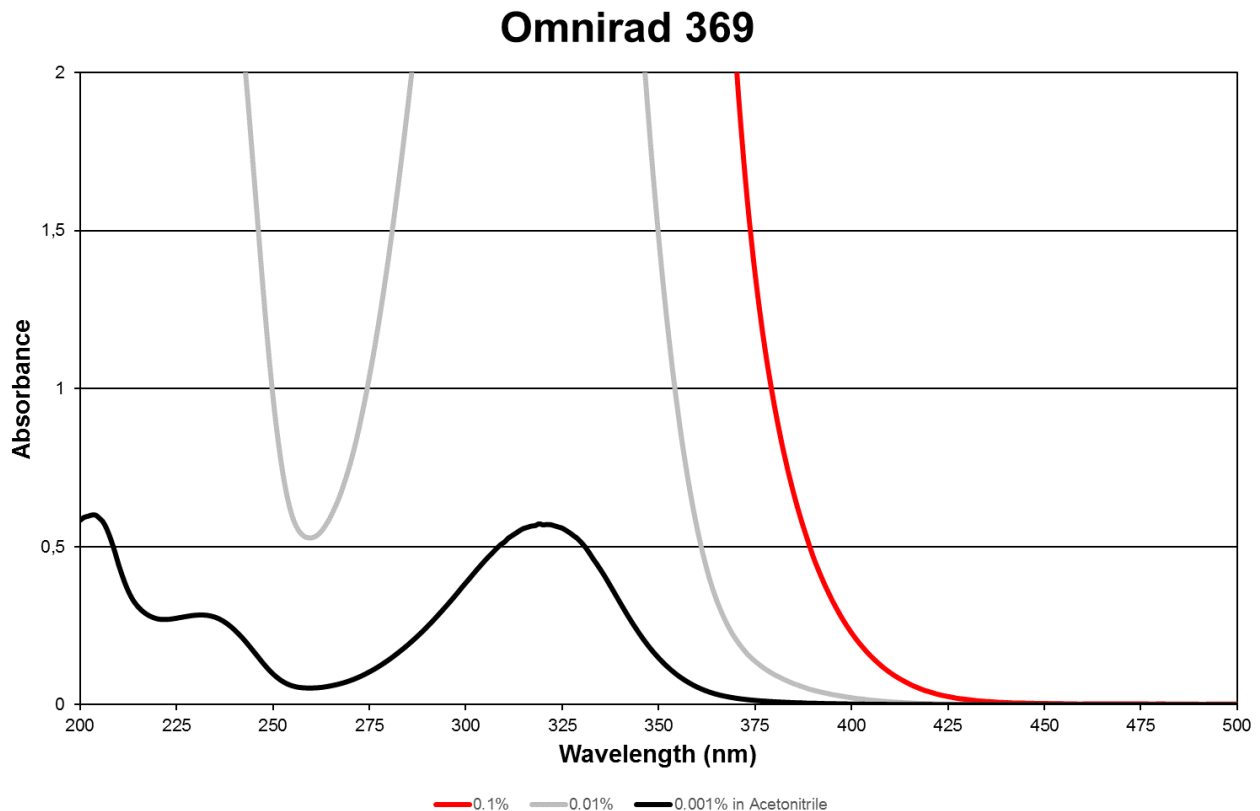
Omnirad 369 is especially suitable for pigmented UV-curable systems, photoresists and printing plates.

Chemical Data



Chemical Name: 2-Benzyl-2-(dimethylamino)-4'-morpholino butyrophenone
Molecular weight: 366.5 g/mol
CAS No: 119313-12-1

Absorption Spectrum



Specification

Appearance	Visual	Slightly yellow powder
Purity	GC analysis	≥ 98.5 %
Volatiles	Loss on Drying	≤ 0.3 %
Melting range	Melting Point apparatus	110 - 119 °C
Transmittance @ 450 nm	Spectrophotometer, 10g/100ml Toluene	≥ 90.0 %
Transmittance @ 500 nm	Spectrophotometer, 10g/100ml Toluene	≥ 98.0 %
Clarity of solution	Visual, 10g/100ml Toluene	Clear

Additional Typical Properties

Solubility at 20 °C (68 °F)	
butyl acetate	~ 11 % by weight
hexanediol diacrylate (HDDA)	~ 10 % by weight
trimethylolpropane triacrylate (TMPTA)	~ 5 % by weight
tripropylene glycol diacrylate (TPGDA)	~ 6 % by weight

Application

Omnirad 369 may be used alone or in combination with suitable co-initiators such as Omnirad 184 and Omnirad 651 for UV-curable inks and varnishes for applications on paper, metal and plastic materials. Its high absorptivity makes it especially suitable for UV-curable inks.

Applications in the graphic arts (e.g., offset and screen inks, printing plates, etc.) and in the electronics industry (e.g., photoresists, solder masks, etc.) may also be of interest.

Recommended Addition levels

The amount of Omnirad 369 required for optimum performance should be determined in trials covering a concentration range :

offset inks	2.0 – 4.0 % Omnirad 369
screen inks	2.0 – 4.0 % Omnirad 369 + 1.0 – 3.0 % Omnirad 184
pigmented coatings	1.0 – 4.0 % Omnirad 369
photo polymers for imaging	0.5 – 5.0 % Omnirad 369

Storage & Handling

Omnirad 369 is sensitive to visible light and any exposure to sunlight should be avoided. Opened packaging should be closed after use to protect the product against light. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 36 months.

Omnirad 369 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 369 is available in 20 Kg carton.

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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