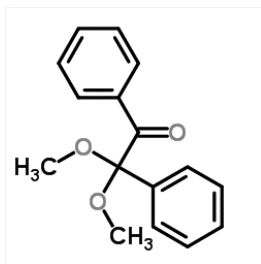


Product Data Sheet

General Information

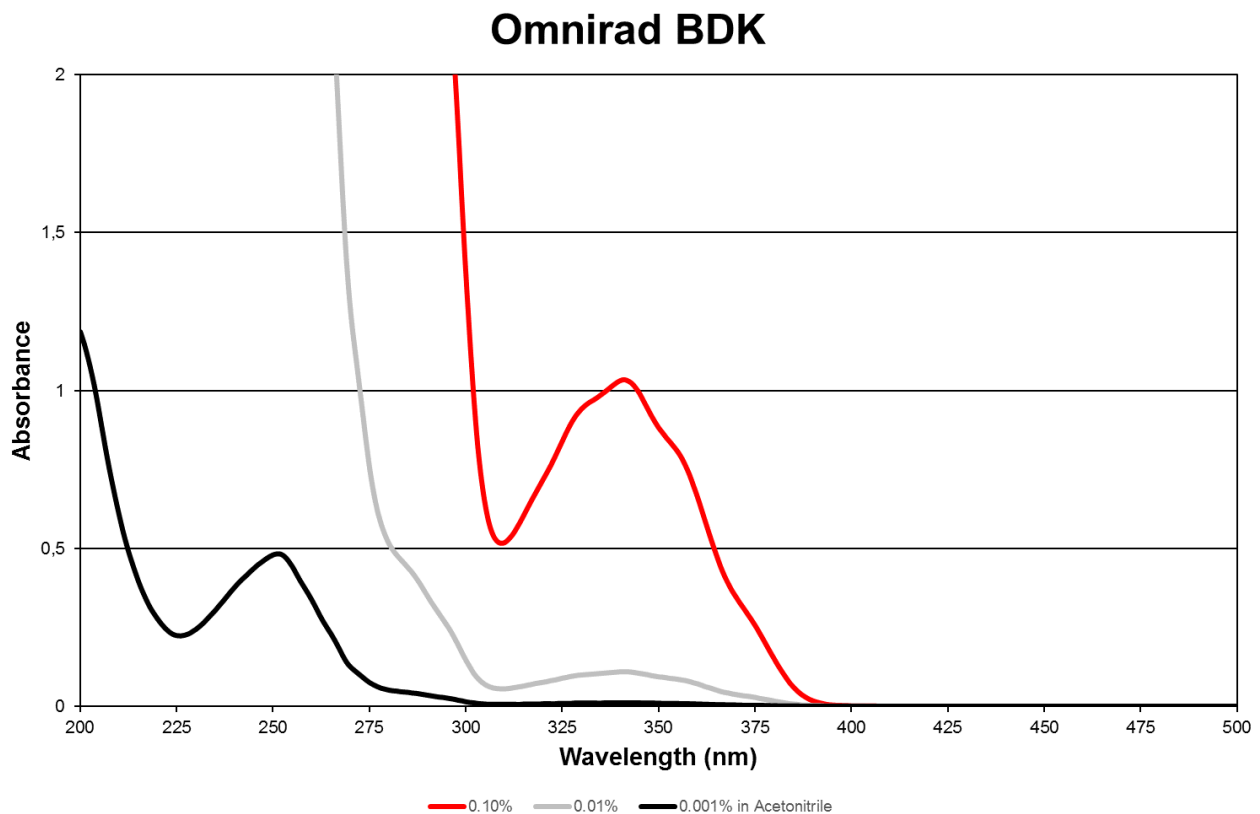
Omnirad BDK is a highly efficient, type I photoinitiator used to initiate radical polymerization of unsaturated oligomers e.g. acrylates after exposure to UV light. It can be used in combination with mono or multi-functional monomers as reactive diluents.

Chemical Data



Chemical Name: 2,2 -Dimethoxy-1,2-diphenylethan-1-one
Molecular weight: 256.3 g/mol
CAS No: 24650-42-8

Absorption Spectrum



Specification

Appearance	Visual	White crystalline powder
Purity	GC analysis	≥ 99.5 %
Volatiles	Loss on Drying	≤ 0.5 %
Melting range	Melting Point apparatus	64 - 67 °C
Ash Content	Residual on ignition	≤ 0.1 %
Transmittance @ 425 nm	Spectrophotometer, 10g/100ml Toluene	≥ 95.0 %
Transmittance @ 450 nm	Spectrophotometer, 10g/100ml Toluene	≥ 96.0 %
Transmittance @ 500 nm	Spectrophotometer, 10g/100ml Toluene	≥ 98.0 %
Clarity of solution	Visual, 10g/100ml Toluene	Clear
Moisture content	Karl Fischer	≤ 0.5 %

Application

Omnirad BDK may be used, after adequate testing, in UV curable coating, ink and adhesive formulations based on acrylates, for substrates such as paper, wood, metal and plastics. It can also be used for printing plates and photoresists.

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

Features & Benefits

Omnirad BDK is a good general purpose photoinitiator. It is soluble in many common organic solvents and UV curable monomers and does not require the presence of an amine synergist.

Recommended Addition levels

An addition level of 1-5% by weight of total formulation is recommended for technical applications.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight.

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 BDK 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 BDK is available in 20 kg cartons.

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.

EUROPE
IGM Resins B.V. (Head office)
T : +31 416 316 657
sales@igmresins.com

NORTH AMERICA
IGM Resins USA Inc.
T : +1 630 2131616
sales@igmresins.com

ASIA-PACIFIC
IGM Resins Shanghai Co., Ltd.
T : +86 21 5208 0993

IGM Resins Taiwan Ltd.
T : +886 342 75275

IGM Japan GK
T : +81 3 5219 1502
sales@igmresins.com

SOUTH AMERICA
Quiminutri Comercio de
Especialidades Quimicas S.A.
T : +55 19 3856 4480
comercial@igmresins.com.br