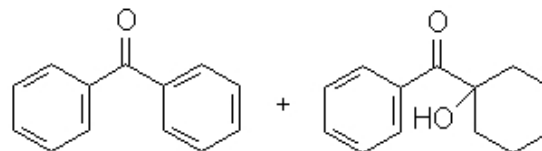


ALPHA CLEAVAGE/HYDROGEN ABSTRACTION PHOTOINITIATOR



INTRODUCTION

ADDITOL® BCPK is a radical photoinitiator blend (1 to 1) of ADDITOL® BP and ADDITOL® CPK that can be used alone or in combination with other photo initiators and/or amine co-activators. ADDITOL® BCPK is used in formulations containing unsaturated materials such as (meth)acrylates, vinyls and unsaturated polyesters. With exposure to UV light, ADDITOL® BCPK undergoes a photochemical reaction that generates radicals. These radicals will initiate polymerization through the unsaturated groups present in the system. ADDITOL® BCPK is a liquid blend, combining surface and through cure. The cure performance can be enhanced by using tertiary amine co-initiators such as EBECRYL® 7100, EBECRYL® P104 or EBECRYL® P115.

PERFORMANCE HIGHLIGHTS

ADDITOL® BCPK is characterized by:

- Liquid, easy to mix in UV curable formulations

UV curable formulated products containing ADDITOL® BCPK are characterized by:

- Good combination of surface and through cure

The final properties of UV cured products also depend on the selection of other components such as oligomers, reactive diluents and additives.

SUGGESTED APPLICATIONS

ADDITOL® BCPK is typically used at levels of 2-7% by weight based on the reactive components of the formulation. Applications include:

- Overprint varnishes
- Clear top-coats and fillers on wood
- Coatings for paper, plastics and metal
- Water based formulations including dispersions
- Inks and pigmented coatings (in combination with other photo initiators)

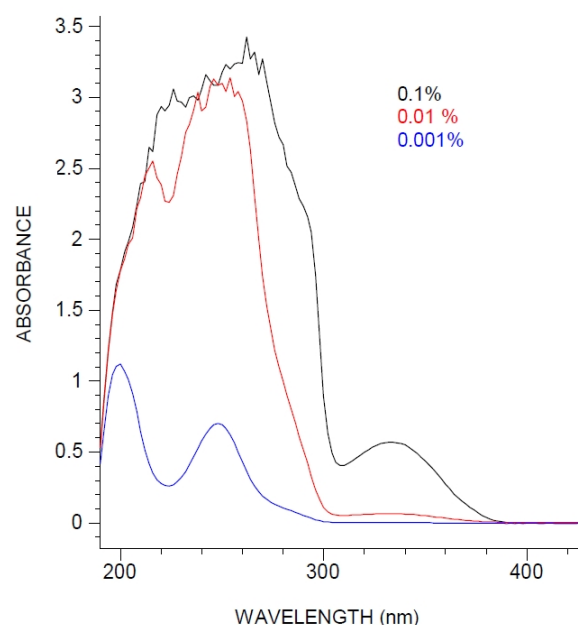
SPECIFICATIONS

Appearance	Pale yellow liquid
ADDITOL® BP, %	48.5 - 51.5
ADDITOL® CPK, %	48.5 - 51.5
Purity, %	min. 98

TYPICAL PHYSICAL PROPERTIES

Volatiles	< 0.5%
Formula weight	182 (ADDITOL® BP) 204 (ADDITOL® CPK)
Extinction coefficients (litres gram ⁻¹ cm ⁻¹)	248 nm: 70.18 334 nm: 0.57

ABSORPTION SPECTRUM



PRECAUTIONS

Before using ADDITOL® BCPK, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

Store the material in a dry area out of direct sunlight. Avoid prolonged exposure to temperatures below 18°C as crystallization may occur. Gently heat crystallized material to 25°C (77°F) to return to a liquid state. Prevent exposure to any UV or visible light. Keep containers closed and protect from physical damage.

See the SDS for the recommended storage temperature range for ADDITOL® BCPK.