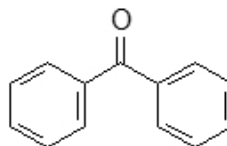


HYDROGEN ABSTRACTION PHOTO INITIATOR



INTRODUCTION

ADDITOL® BP is used as a radical photoinitiator in UV coatings, inks, and overprint varnishes. In combination with amine co-initiators or alpha cleavage photo initiators, ADDITOL BP is used in formulations containing unsaturated materials such as acrylates, methacrylates, vinyls and unsaturated polyesters. With exposure to UV light, ADDITOL® BP undergoes a photochemical reaction that generates radicals. These radicals will initiate polymerization through the unsaturated groups present in the system.

ADDITOL® BP provides rapid cure response, particularly surface cure, when combined with conventional tertiary amine co-initiators such as N-methyldiethanolamine (MDEA). Better depth of cure and moisture resistance, as well as excellent surface cure, is obtained with reactive amine co-initiators such as EBECRYL® 7100, EBECRYL® P104 or EBECRYL® P115.

PERFORMANCE HIGHLIGHTS

ADDITOL® BP is characterized by:

- Good solubility

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

- Excellent surface 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® BP is typically used at levels of 3 - 7% by weight based on the reactive components of the formulation. Applications include:

- Overprint varnishes on paper and plastic
- Wood top-coats
- Coatings and inks requiring optimum surface cure

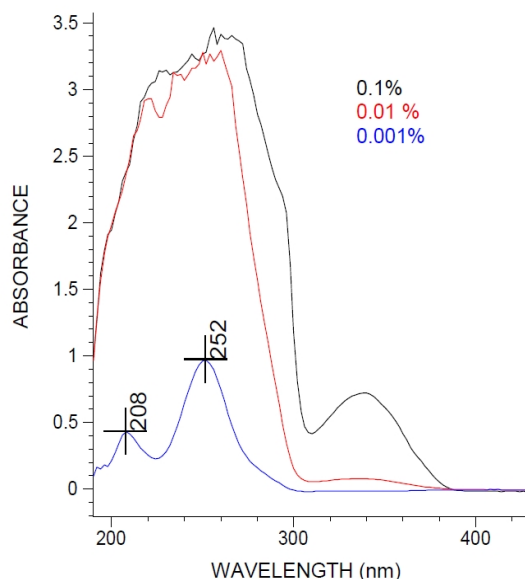
SPECIFICATIONS

Appearance	White crystalline flakes
Melting point, °C	47 - 49
Volatiles, %	max. 0.5
Assay, %	min. 99

TYPICAL PHYSICAL PROPERTIES

Molecular Weight	182.2
Extinction coefficients (litres gram ⁻¹ cm ⁻¹)	252 nm: 95.285 338 nm: 0.711

ABSORPTION SPECTRUM



PRECAUTIONS

Before using ADDITOL® BP, 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. 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® BP.