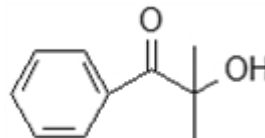


ALPHA CLEAVAGE PHOTO INITIATOR



INTRODUCTION

ADDITOL® HDMAP is a general-purpose radical photoinitiator that can be used alone or in combination with other photo initiators. It is used in formulations containing unsaturated materials such as acrylates, methacrylates, vinyls and unsaturated polyesters. With exposure to UV light, ADDITOL® HDMAP undergoes a photochemical reaction that generates radicals. These radicals will initiate polymerization through the unsaturated groups present in the system.

PERFORMANCE HIGHLIGHTS

ADDITOL® HDMAP is characterized by:

- Low viscosity
- Good solvency

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

- Balanced surface and through cure
- Good shelf stability

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® HDMAP is typically used at levels of 1-5% by weight based on the reactive components of the formulation. Applications include:

- Clear coats for metal and plastics
- Wood top-coats
- Overprint varnishes
- Paper upgrading
- Inks and pigmented coatings (in combination with other photo initiators)

PRECAUTIONS

Before using ADDITOL® HDMAP, 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® HDMAP.

SPECIFICATIONS

Appearance	Clear yellow liquid
Purity, %	min. 99

TYPICAL PHYSICAL PROPERTIES

Viscosity, mPa.s at 25°C	21 - 25
Molecular Weight	164.2
Extinction coefficients (liters gram-1 cm-1)	278 nm: 5.572 318 nm: 0.530

ABSORPTION SPECTRUM

