DOUBLE BOND CHEMICAL IND. CO., LTD. DATA SHEET

PHOTOINITIATOR

DOUBLECURE®BP

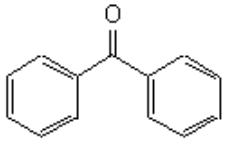
Photoinitiator for UV Radiation Curing Systems

General

Doublecure® BP is an efficient photoinitiator which when irradiated with UV light interacted with amine synergists such as Doublecure® 115, generates free radicals which can initiate polymerization of UV radiation curing systems.

Properties

Structure:



CAS No.	:	119-61-9
EINECS No.	:	204-337-6
Molecular Formula	:	$C_{13}H_{10}O$
Molecular Weight	:	182.2

Physical Data

Appearance	:	White crystal or flake
Odor	:	Characteristic
Melting point	:	47 - 49.5 °C
Boiling point	:	305 °C
Specific gravity	:	1.11 @ 20 °C
Vapor pressure	:	1 mmHg @ 108 °C
ε @ 315 nm	:	880 ml $gram^{-1}$ cm^{-1}

Solubility

Insoluble in water; Soluble in most organic solvents and compatible with most unsaturated pre-polymers, resins and monomers used in the UV curing industry.

Specification

Appearance	:	White to light yellow crystal or flake
Assay	:	99.5 % min. (by GC)
Melting point	:	47 - 49 °C
Volatiles	:	0.5 % max.

Storage

Must be stored in closed containers in dark dry conditions.

Health and Safety Information

Toxicity:

Acute LD_{50} (oral) mouse	:	2895 mg/kg
Acute LD_{50} (oral) rat	:	>10,000 mg/kg

Inflammability:

Flash point	:	143 °C

For detailed information please consult the corresponding material safety data sheets.

The information and recommendations contained herein are based on the current state of our knowledge. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Revised date: Jul. 07, 2012