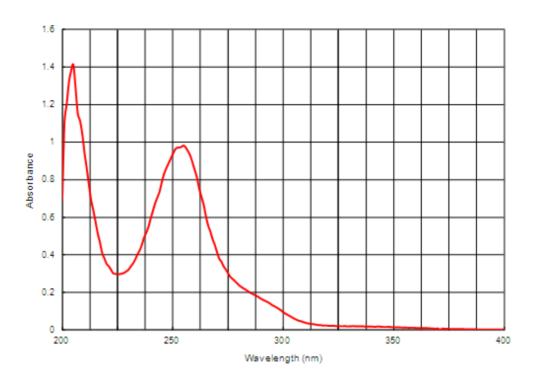


## **PHOTOINITIATOR**

## **DOUBLECURE® 200**

	Photoinitiator for UV Radiation Curing Systems  DOUBLECURE 200 is a liquid-type non-yellowing photoinitiator. Good solvency proprieties make it ideal for making photoinitiator blends. It is the initiator of choice for coating on wood, metal and plastic as well as UV-cured adhesives where non-yellowing properties are important.			
General				
Properties	Structure:			
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			°OCH3	
	Chemical Name	:	Methyl phenylglyoxylate	
	CAS No.	:	15206-55-0	
	EINECS No.	:	239-263-3	
	Molecular Formula	:	$C_9H_8O_3$	
	Molecular Weight	:	164.2	
Physical Data	Appearance	:	light yellow clear liquid	
	Odor	:	Faint	
	Melting point	:	17℃	
	Boiling point	:	<b>246-248</b> ℃	
	Specific gravity	:	1.16 g/cm³ @20°ℂ	
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	:	Light yellow and clear liquid	
	Assay	:	98.0 % min.	
	Boiling point	:	246-248℃	
	Benzoic acid	:	0.1 % max.	
Application	DOUBLECURE 200, when irradiating with UV light, undergoes both of a homolytic and intramolecular type of breakage to generate a pair of free radicals and a bimolecular hydrogen abstraction reaction to initiate the polymerization of UV curable systems.			
	Its photospeed acted as photoinitiator is not as fast as DOUBLECURE 173 for example, but it gives better non-yellowing performance and better surface curing.			
	The usage rates of DOUBLECURE 200 vary according to the composition of the system, source of light, line speed, and film thickness, but usually lie between 0.5 % to 2 % w/w. DOUBLECURE 200 can be used for printing ink, overprint vanishes and wood lacquers, putties and fillers for particle board.			





Storage	Must be stored in closed containers in dark dry conditions.		
Health and Safety Information	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		
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Revised date: Aug 26, 2015