PowerCure™ PAG230 Photoinitiator

Introduction

PowerCure™ PAG230 belongs to the class of cationic organometallic photoinitiators. It provides excellent light absorption and high resolution for epoxy curing.

Chemical Name

Cyclopentadienyliron(ii) hexa-fluoroantimonate

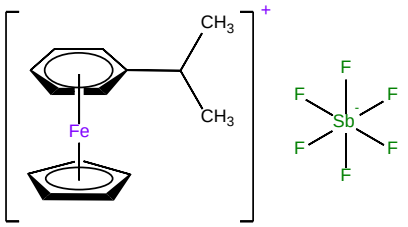
CAS Number

100011-37-8

EINECS Number

407-840-0

Chemical Structure



Chemical Formula

$C_{14}H_{17}Fe.SbF_6$

Molecular Weight

476.8

Physical Properties

Appearance	Acid Powder
Purity (%)	Min.98
Melting Point (°C)	81-86
Boiling point (°C)	Min.250
Volatile Loss (%)	Max.0.5

Solubility

Solubility [20°C]	% w/w
Water	0.4
Dichloromethane	80
Toluene	40
TMPTA	>10
TPDGA	>10
Bisphenol epoxy acrylate	>10

PowerCure™ PAG230 Photoinitiator

Benefits & Applications

PowerCure™ PAG230 not only has strong absorption in the near ultraviolet region, but also has absorption in the visible region, which is suitable for visible light and LED curing. In the ultraviolet region, the extinction coefficient can reach 10^3 orders of magnitude, and in the short-wave visible region also has weak absorption, the extinction coefficient is about 10^2 orders of magnitude.
The formula containing PowerCure™ PAG230 cannot undergo cationic polymerization immediately after light, but only form a latent curing layer, which can be cured after appropriate heating, and is very suitable for bonding opaque materials.

PowerCure™ PAG230 is mainly used in various cationic light curing systems, mostly used in colored systems. Can be used for delay curing and heat curing systems.

The recommended dosage is 1~5%.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerCure™ PAG230 is supplied in 25Kg Drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

PowerCure™ PAG230 Photoinitiator

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.