

PowerCure™ ITX24 Photoinitiator

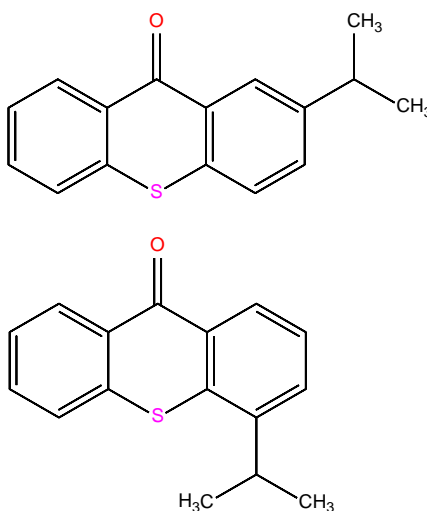
Introduction PowerCure™ ITX24 is the most commonly utilized photosensitizer in pigmented UV coating systems.

Chemical Name Mixture of 2-isopropyl thioxanthone and 4-isopropyl thioxanthone

CAS Number 75081-21-9
Or 5495-84-1 (2-isomer) + 83846-86-0 (4-isomer)

EINECS Number 616-186-7
Or 226-827-9 (2-isomer) + 281-065-4 (4-isomer)

Chemical Structure



Chemical Formula C₁₆H₁₄OS

Molecular Weight 254.3

Physical Properties

Appearance	Pale Yellow Powder
Melting Point (°C)	Max.72
Volatiles (%)	Max.0.5
Assay (HPLC, %)	Min.98

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Solubility

Solubility [20°C]	% w/w
Water	<0.01
Acetone	30
Methanol	3.5
Toluene	25
MMA	60
Ethyl acetate	25
1,6-Hexanediol diacrylate	30
Trimethylolpropane triacrylate	10
Propyleneglycol diacrylate	22
1,2-Dichloroethane	50

Benefits & Applications

PowerCure™ ITX24 is a preferred option for a pigmented UV curing system, designed to improve curing characteristics. The required usage amounts differ depending on the system's composition, light source, line speed, and film thickness.

PowerCure™ ITX24 can be used in printing ink, decorative coatings for metal cans, solder masks, and pressure-sensitive sheets.

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™ ITX24 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.

Note

All information in the leaflet is based on our present knowledge and



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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.

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.