

Product Data Sheet

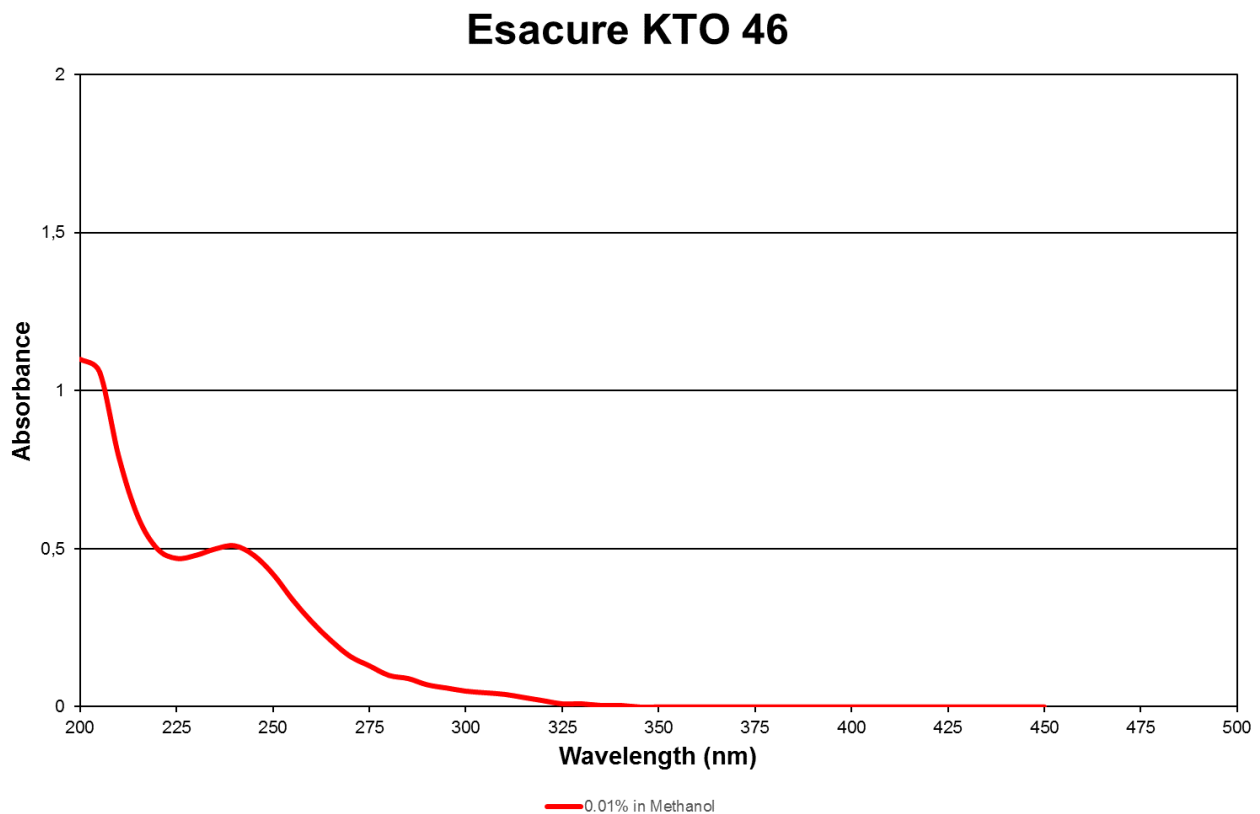
General Information

Esacure KTO 46 is a stable liquid mixture of Trimethylbenzoyldiphenylphosphineoxide and α - hydroxy ketones and Benzophenone derivatives. It is particularly indicated for the photopolymerisation of UV curable pigmented systems when high reactivity, low curing odour and low yellowing are required.

Chemical Data

Chemical Name: Blend of diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide , alpha hydroxy ketones and Esacure TZT
CAS No: 163702-01-0 + 52408-84-1 + 7473-98-5 + 954-16-5+ 134-84-9

Absorption Spectrum



Specification

Appearance	Visual	Viscous clear liquid
Color	Gardner	≤ 7
Acyl-phosphine-oxide content	Spectrophotometer	45.0 - 47.0 %

Additional Typical Properties

Solubility: insoluble in water, soluble in most common organic solvents, monomers and oligomers for UV applications.

Application

Esacure KTO 46 may be used, after adequate testing, in applications such as white pigmented coatings, clear high thickness coatings and printing inks such as silk screen, offset, gravure, litho inks etc.

Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

Recommended Addition levels

Optimum concentration is between 3 and 8% by weight and depends on system composition, thickness, and desired cure speed.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. Optimal storage temperature to avoid crystallization is between 15 and 25°C. Avoid contact with alkaline additives and water. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months.

In the case that Esacure KIP 75 LT needs to be recovered due to crystallization, you may want to heat the product up to 60-70°C . Under moderate stirring maintain the temperature for 2 hours or till the product is clear and homogeneous.

When the solution is clear let cool down the product at room temperature under stirring
After the recovering process the product maintains its characteristics of appearance and reactivity

Esacure KTO 46 should be handled in accordance with good industrial practice. Further information is provided in the material safety data sheet which is available on request.

Regulatory Status

All information can be found on MSDS (Material safety data sheet) and RIS (Regulatory Information Sheet) available upon request.

Packaging

Esacure KTO 46 is available in 25 kg drums.

Disclaimer:

The information presented in this data sheet is given in good faith and is based on the material available to us at the time of writing. The information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any patented invention without a license. It is offered solely for consideration, investigation and verification.

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