

### Product Description

H-Nu 470IL is a broad wavelength use liquid blend photoinitiator with easy addition to a **free-radical** curable formulation. It will photoinitiate resins across the UVB, UVA and near-UV visible portion of the light spectrum. H-Nu 470IL is a commercial photoinitiator with a broad absorbance range of 300 nm to 530 nm ( $\lambda_{\text{max}} = 380 \text{ nm}$ ).

### Advantages

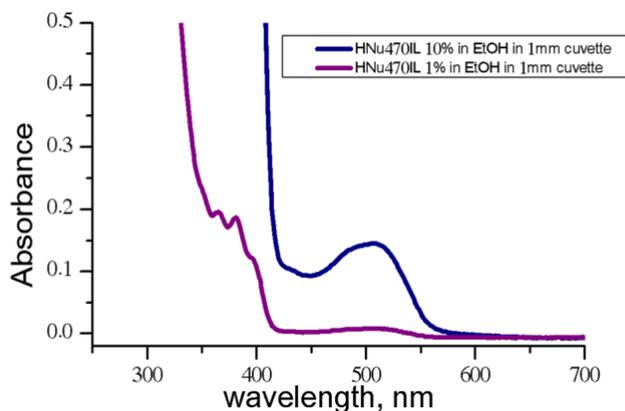
- ✓ Easy to incorporate liquid, minimizes downtime arising from solubility issues
- ✓ Capable of significant depth of cure, > 1inch
- ✓ Time and energy savings when one-pass thick cure can replace thin multilayered coatings
- ✓ Cure through UV opaque or pigmented substrates
- ✓ Initiator bleaching: from yellow to no residual color, depending on the exposure dose
- ✓ Bleaching/color change indicator of exposure/cure with UV/visible light

### Photoinitiator Usage Recommendations

- ✓ Recommended starting concentration of H-Nu 470IL is 5% by weight. We recommend testing several concentrations in a “ladder” study between 2-10% to achieve best results
- ✓ H-Nu 470IL contains N,N-dimethylacrylamide (N,N-DMAA). Alternately, a version based on cyclohexanone (CX) can be offered.

### Typical Properties

Property	Test Method	Typical Value
Absorbance Maximum	UV Visible spectroscopy	380 nm
Appearance	Visual	Orange Liquid



### Disclaimer

The materials in this brochure are not intended for use in products which would be regulated by the Food and Drug Administration (FDA) unless the finished product is tested in accordance with the applicable safety requirements. Spectra Photopolymers is not able to recommend these materials for such uses and assumes no liability for any such use. Technical advice furnished by the seller shall not constitute a warranty or condition, statutory or otherwise, which is expressly disclaimed, all such advice being given and accepted is at the buyer's risk. Data and results that the user or buyer achieves may differ. Optimization, scale-up and product performance are the responsibility of the buyer or user.