



innovative chemical technologies, inc.

## **FLEXISORB S-50WS**

### **Technical Data Sheet**

- ◆ **Ultraviolet Light Absorber For Non Polar, Hydrocarbon Solvent Systems**
- ◆ **Readily Dissolves In Hydrocarbon Solvents**
- ◆ **Based On Well Proven And Accepted Benzotriazole UV Absorber Technology**
- ◆ **Provides Uniform Coverage Due To Solvent Application From A True Solution**
- ◆ **Easy To Use And Highly Efficient**

### **APPLICATIONS**

- ◆ **Carpet**
- ◆ **Upholstery**
- ◆ **Apparel (Fabrics of all types)**
- ◆ **Paints, Coatings And Stains**
- ◆ **Tire Dressings**
- ◆ **Interior Car Vinyl/Leather Dressings**

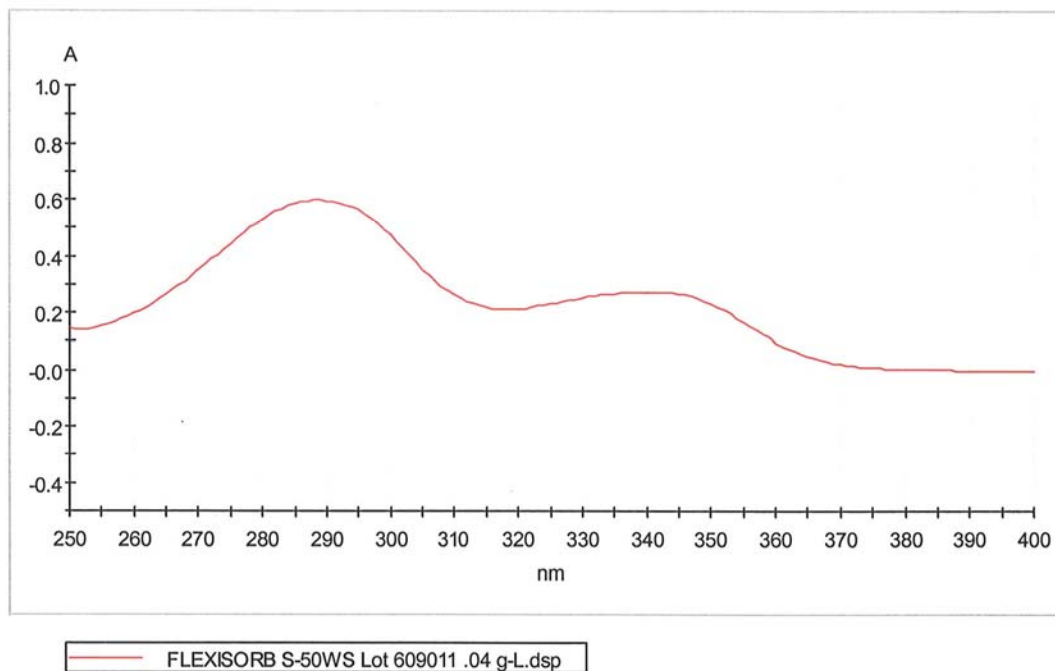
## TECHNICAL INFORMATION

Flexisorb S-50WS is a highly effective, easy to use, UV absorber designed for use in nonpolar solvent based systems. It is easy to use and highly effective because it is applied from a solution. Flexisorb S-50WS gives uniform surface coverage as compared to other UV absorbers that form unstable, large particle size dispersions and yield non-uniform surface coverage.

Flexisorb S-50WS is based on well proven and accepted benzotriazole UV absorber chemistry. Unlike water based UV light absorbers, Flexisorb S-50WS is not water soluble so it will not readily wash off exterior surfaces. Since Flexisorb S-50WS is water insoluble, it is more durable than water soluble UV absorbers. In addition, Flexisorb S-50WS is much easier to work with and has better shelf stability than paste type UV light absorbers in that it is liquid and a homogenous solution.

The following is an absorption UV spectrum of a 0.04g/L solution of Flexisorb S-50WS and an indication that even at low concentrations, Flexisorb S-50WS will provide UV protection.

Flexisorb S-50WS, 0.04g/L in odorless mineral spirits



# FORMULARY

Recommended use levels vary from 0.25% to 5.0% Flexisorb S-50WS depending on the application, application rate, and desired performance. Flexisorb S-50WS can be added to most any non polar solvent based coating to provide UV protection, but is not compatible with aqueous systems.

Some suggested formulations include:

*Oil & Water Repellent*  
(for apparel and upholstery)

<u>Ingredient</u>	<u>Wt %</u>
Odorless Mineral Spirits	Balance
Flexisorb S-50WS	0.25 - 1.0
Flexipel S-11WS	10.0

*Vinyl/Tire Dressing*

<u>Ingredient</u>	<u>Wt %</u>
Odorless Mineral Spirits	Balance
Flexisorb S-50WS	1.0 – 4.0
Solvent Based Polysiloxane	20.0 – 30.0

*Oil Based Stains and Paints*

<u>Ingredient</u>	<u>Wt %</u>
Paint or Stain	96.0 - 98.0
Flexisorb S-50WS	2.0 - 4.0

**Note:**

See ICT Technical Data Sheet for Flexipel S-11WS

If you are currently using a UV absorber in a solvent based system, the best place to start is to replace it with an equal concentration of Flexisorb S-50WS.

## **TYPICAL PROPERTIES**

Appearance	Clear, Light Yellow Liquid
Density @ 25 C	0.8 g/ml
Water Solubility	Insoluble
Odor	Mild, Petroleum
Boiling Point	320 F

## **PACKAGING/HANDLING**

Flexisorb S-50WS is available in 55 gallon drums (Net Wt. 340 lbs) and  
5 gallon pails (Net Wt. 31 lbs).  
DOT classification is Non Regulated