## **Technical Information**

Page 1 of 2

TI/EVF 1011 e August 2010 **Plastic Additives** 

## The Chemical Company

 $\ensuremath{\mathbb{R}}$  = registered Trademark of Ciba Holding Inc.

## Tinuvin<sup>®</sup> PUR 866

## High Performance Light Stabilizer Package

Characterization Tinuvin PUR 866 is a high performance UV stabilization package designed for polyurethane systems (e.g. TPU, CASE, RIM flexible foam applications). Tinuvin PUR 866 is particularly efficient in thermoplastic polyurethane (TPU). Tinuvin PUR 866 can also be used in polyurethane coatings on tarpaulin and flooring as well as in synthetic leather. **Chemical name** Proprietary **CAS** number Proprietary **Chemical formula** Proprietary Molecular weight Proprietary Tinuvin PUR 866 provides outstanding UV stability to polyurethane systems. **Applications** The increased effectiveness over conventional UV stabilizer systems is particularly pronounced in transparent or light colored TPU applications. Tinuvin PUR 866 can also be used in other polymers such as polyamides and other engineering plastics including aliphatic polyketone, styrene homoand copolymers, elastomers, TPE, TPV and epoxies as well as polyolefins and other organic substrates. Features/benefits Tinuvin PUR 866 offers superior performance and increased productivity over conventional light stabilization systems: • Excellent initial color • Superior color retention during UV exposure • Enhanced long-term-thermal-stability Single-additive solution Easy dosable Product forms White to slightly yellow, free-flowing powder Use levels for Tinuvin PUR 866 typically range between 0.1 % and 2.0 %Guidelines for use depending on substrate and processing conditions. Tinuvin PUR 866 can be used alone or in combination with other functional additives such as antioxidants (hindered phenols, phosphites) and HALS light stabilizers, where often a synergistic performance is observed. Performance data of Tinuvin PUR 866 are available for various applications.

Physical Properties	<b>Solubility (25 °C):</b> Acetone Ethyl Acetate Methanol Methylene Chloride Toluene	<b>g/100 g solution</b> 7.5 9 <0.01 29 13
	<b>Volatility</b> (TGA, heating rate 20 Weight loss % 1.0 5.0 10.0	°C/min in air) Temperature °C 215 255 270
Handling & Safety	Tinuvin PUR 866 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use. Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.	
Note	The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contrac- tual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.	

August 2010

BASF Schweiz AG Performance Chemicals/Plastic Additives Klybeckstrasse 141 4057 Basel, Switzerland