

Tinuvin® 99-2

Product Description

Tinuvin 99-2 is a liquid UV absorber of the hydroxyphenyl-benzotriazole class designed to fulfill the cost/performance and durability requirements of trade sales and industrial coatings. Its broad UV absorption allows efficient protection of light sensitive substrates such as wood and plastics.

Key Features & Benefits

- Industrial grade liquid hydroxyphenyl-benzotriazole UVA
- Lower viscosity version of Tinuvin 99
- Excellent spectral coverage in the UV region
- Excellent thermal permanence

Chemical Structure

Tinuvin 99-2 is: 95% Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1, 1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters, 5% 1-methoxy-2-propyl acetate

Properties

Typical Properties

CAS No: 127519-17-9, 108-65-6 Appearance light brown amber liquid

Molecular weight 451.6

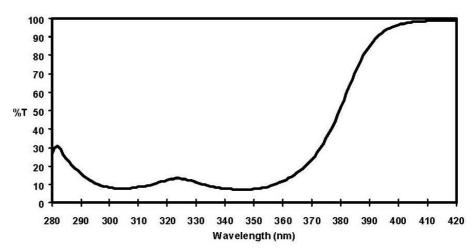
Dynamic Viscosity at 25°C

(Brookfield, 20 rpm) mPa s 2000 Density at 20°C g/cm³ 1.07

Miscibility at 20°C Tinuvin 99-2 is miscible to more than 30% with most commonly

used paint solvents. Water solubility is less than 0.1%

These typical values should not be interpreted as specifications.



Applications

Tinuvin 99-2's very high thermal stability and environmental permanence makes it suitable for coatings exposed to high bake cycles and/or extreme environmental conditions.

Tinuvin 99-2 is recommended for applications such as:

- Trade sales paints, especially wood stains, and clear varnishes
- General industrial applications
- · High-bake industrial systems (e.g. coil coatings)

The performance provided by Tinuvin 99-2 is enhanced when used in combination with a HALS stabilizer such as Tinuvin 292, Tinuvin 249 or Tinuvin 123. These combinations improve the durability of coatings by inhibiting or retarding the occurrence of failures such as gloss reduction, cracking, chalking, color change, blistering, and delamination.

The amount of Tinuvin 99-2 required for optimum performance should be determined in laboratory trials covering a concentration range.

Recommend Concentrations

clear coatings & varnishes	1.0 – 3.0 %	Tinuvin 99-2 alone or in combination with
	0.5 – 2.0 %	Tinuvin 123, Tinuvin 249 or Tinuvin 292
pigmented coatings	1.0 – 3.0	Tinuvin 99-2 in combination with
	0.5 – 2.0 %	Tinuvin 123, Tinuvin 249 or Tinuvin 292

(concentrations are based on weight percent binder solids)

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Tinuvin 99-2.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use

it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

Tinuvin is a registered trademark of BASF Group.

© BASF Corporation, 2019



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.
For more information on Responsible Care® go to:
U.S.: www.basf.us/responsiblecare_usa
Canada: www.basf.us/responsiblecare_canada
México: www.basf.us/responsiblecare mexico

BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612

Email: CustCare-Charlotte@basf.com

Email: edtech-info@basf.com www.basf.us/dpsolutions