Chiguard® 101WB

PRODUCT DATASHEET

Introduction

Chiguard® 101WB is a *colloidal emulsion* of a non-basic hindered amine light stabilizer (HALS). It has been designed for waterborne systems and is especially suitable for polyurethane (PUD) and alkyd dispersions where basic HALS such as Chiguard® 353 are not applicable. Chiguard® 101WB is also recommended for systems carrying acidic catalysts, biocides, etc.

Key features and benefits

Chiguard® 101WB offers several unique product advantages :

- Extremely low emulsion agent content to lessen the foaming issues.
- Instantly miscible with waterborne resins.
- Does not affect the flowability of the resulting coatings.
- Free of resins, diluents and thickeners to avoid compatibility issues.
- Free of solvents or coalescing agents.
- Inter-miscible with Chitec's other waterborne stabilizers at any ratio to form a synergistic and homogeneous emulsion.

Application

Chiguard® 101WB is widely used in many waterborne applications where the low VOC features have resulted in growing demand. Notable examples include :

- Synthetic leather and textile PUD coating for automobile seating and inner parts.
- Alkyd dispersion-based wood coatings.
- PUD-based sealants and adhesives.

Storage

Shelf life is 12 months from the date of manufacture if stored at ambient temperature and the seal remains intact. Once open, make sure the cap is tightly close to prevent the evaporation of water. A storage temperature below 10°C or above 40°C must be avoided because this will have a detrimental effect on the quality of the product. Should separation occur due to prolonged storage, contact the company for assistance.
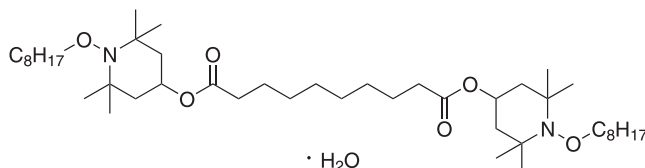
Packaging

20kg plastic drum

Chemical information of active content (HALS)

Chemical name

Decanedioic acid, bis(2,2,6,6-tetramethyl-1-(octyloxy)-4-piperidinyl) ester

CAS No.	:	129757-67-1

Structure of active content

Molecular formula	:	$C_{44}H_{84}N_2O_6$
Molecular weight	:	737 (average)

Physical Data

pH	:	6~8
Viscosity	:	5 cps
Solid content	:	31~34 %
Active content	:	29~31 %
Appearance	:	White milky emulsion
Particle size	:	< 500 nm
Density	:	0.98 g/cm³