

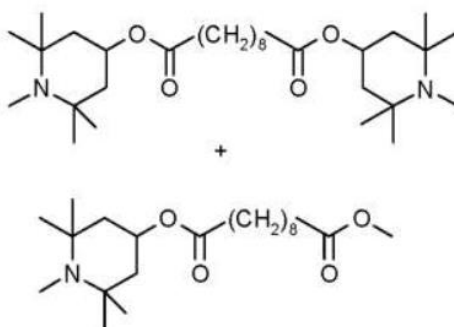
PUREsorb 292

Liquid Hindered Amine Light Stabilizer

Description

PUREsorb 292 is a liquid hindered amine light stabilizer developed especially for coatings. The almost pure mixture of Bis (1, 2, 2, 6, 6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate keeps the product liquid even at room temperature. The efficiency of *PUREsorb 292* provides significantly extended lifetime to coatings by minimizing paint defects such as loss of gloss and cracking.

Chemical Structure



Chemical name and CAS

- 1) Bis (1, 2, 2, 6, 6-pentamethyl-4-piperidyl) sebacate [41556 – 26 – 7]
- 2) Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate [82919 – 37 – 7]

Molecular weight

- 1) 509 g/mol
- 2) 370 g/mol

Features & benefits

PUREsorb 292 offers superior performance in both water and solvent-based coatings and excellent compatibility with a wide variety of coating systems. The lifetime coating can be extended using *PUREsorb 292* by minimizing loss of gloss and cracking.

Applications

PUREsorb 292 is recommended for applications in coatings such as automotive (non-acid catalysed), industrial, radiation curable (with no loss of cure speed) and wood stains. Efficiency of *PUREsorb 292* has been demonstrated in coatings based on a variety of binders such as thermoplastic acrylics, construction adhesives and sealants, thermoplastic acrylics, thermosetting acrylics, alkyd and polyesters, waterborne acrylics, phenolics, vinylics, exterior construction coatings, construction sealants and adhesives.

Performance of *PUREsorb 292* can be further improved when used in combination with other UV absorbers. These combinations give coatings superior protection against blistering, colour change, cracking, delamination and gloss reduction. The amount of *PUREsorb 292* required for optimum performance should be determined in trials covering a concentration range.

TECHNICAL DATA SHEET

Polygel Product Management

Email: info@polygelbrunei.com



Recommended usage levels are:

- 0.5 - 2.0% in coatings
- 0.3 – 0.5% in polyolefin
- 0.5 – 1.0% in sealant and adhesive
- 0.5 – 1.0% in rubber

Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Use only with adequate ventilation. For more detailed information please refer to the material safety data sheet.

Storage

PUREsorb 292 should be stored in a closed containers and be kept in a dry and dark place without any light exposure. Containers should be kept tightly closed when not in use.

Packaging

Available in 200 kg drums and 1000 kg IBC.

Typical Properties:

Appearance	Slightly yellow liquid		
Dynamic viscosity (cps)	400 @ 20°C		
Solubility (% by weight @ 20°C)			
Acetone	>50	n-Hexane	>50
Chloroform	>50	Methanol	>50
Cyclohexane	>50	Methylene chloride	>50
Ethanol	>50	Toluene	>50
Ethyl acetate	>50	Water	<0.01

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