

PowerStab™ 119 HALS UV Stabilizers

Introduction

PowerStab™ 119 is a high molecular weight hindered amine light stabilizer. It provides outstanding thermal oxidative stability as well as light stability in polyolefins, especially in talc-filled PP and TPO.

Chemical Name

N,N',N'',N'''-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethylpiperidin-4-yl) amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine

Synonym:

1,5,8,12-tetrakis[4,6-bis(N-butyl-N-1,2,2,6,6-pentamethyl-4-piperidylamino)-1,3,5-triazin-2-yl]-1,5,8,12-tetraazadodecane

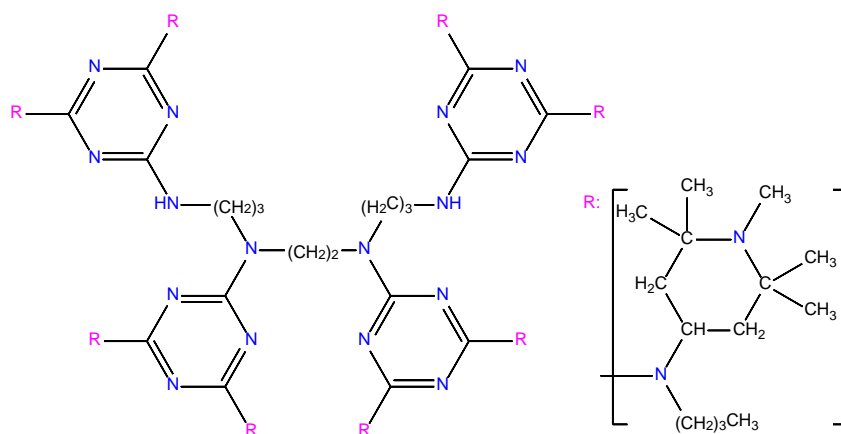
CAS Number

106990-43-6

EINECS Number

401-990-0

Chemical Structure



Chemical Formula

$C_{132}H_{250}N_{32}$

Molecular Weight

2286

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Physical Properties

Appearance	Pale Yellow Powder
Specific Gravity (20°C)	1.03
Melting Point (°C)	115-150
Average Particle Size (mm)	1
Volatiles (%)	Max.0.5
Color of Solution 425nm (%)	Min.90
Color of Solution 500nm (%)	Min.95
Ash (%)	Max.0.1

Solubility

Solubility [20°C]	% w/w
Acetone	6
Chloroform	>100
Ethyl acetate	50
n-Hexane	7
Methanol	1
Toluene	94
Water	<0.01

Benefits & Applications

PowerStab™ 119 is a high molecular weight hindered amine light stabilizer (HALS) which is effective in a broad range of polymers and applications, including polyolefins (PE, PP), TPO, styrenic polymers (ABS, ASA), polyamide fibers, polyurethanes, and elastomers. The advantages of the product render it particularly useful in PE-based agricultural films, PP fibers, and talc-filled PP and TPO automotive parts. It is also useful in powder coatings where it contributes to the triboelectric effect as well as providing light stability.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product

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life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerStab™ 119 is supplied in 20kg PE bag (600kg to pallet), cardboard boxes containing 2 x 20kg (480kg to pallet), Pallet type: CP3.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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We disclaim liability for any incidental or consequential damages.