

# PowerStab™ 944 HALS UV Stabilizers

## Introduction

PowerStab™ 944 is a polymeric hindered amine light stabilizer. It has excellent light stabilization performance in polyolefins (thin- and thick-section), low volatility and excellent resistance to migration.

## Chemical Name

Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diy]][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediy[(2,2,6,6-tetramethyl-4-piperidinyl)imino]]

Synonym:

1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with 2,4,4-trimethyl-pentanamine

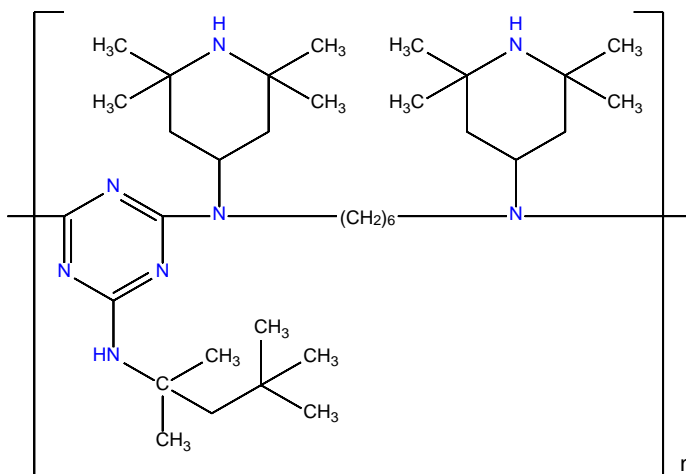
## CAS Number

71878-19-8 or 70624-18-9

## EINECS Number

615-678-9 or 615-131-4

## Chemical Structure



## Chemical Formula

(C<sub>35</sub>H<sub>68</sub>N<sub>8</sub>)<sub>n</sub>

## Physical Properties

Appearance	White to light yellow granule
Specific Gravity (20°C)	1.01
Melting Point (°C)	100-135

## PowerStab™ 944 HALS UV Stabilizers

Flash Point (°C)	Min.150
Volatiles (%)	Max.1.0
Color of Solution 425nm (%)	Min.95
Color of Solution 450nm (%)	Min.96
Ash (%)	Max.0.1

### Solubility

Solubility [20°C]	% w/w
Acetone	>50
Chloroform	>30
Ethanol	<0.1
Ethyl acetate	>50
n-Hexane	41
Methanol	3
Methylene chloride	>50
Toluene	>50
Water	<0.01

### Benefits & Applications

PowerStab™ 944 is a polymeric hindered amine light stabilizer (HALS) which is effective in a broad range of polymers and applications. The product is particularly useful in PE applications (injection molding, film, and tape), PP (injection molding, film, and fibers), TPO, polyamide fibers, flexible and rigid PVC, styrenic TPE's, polyurethanes, and specialty adhesive applications. It is also suitable for use in xylene XLDPE.

### 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 life. Keep containers sealed when not in use.

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

## PowerStab™ 944 HALS UV Stabilizers

**Packing**

PowerStab™ 944 is supplied in 25kg PE bag.

**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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.