

PowerStab™ 622 HALS UV Stabilizers

Introduction

PowerStab™ 622 is a polymeric hindered amine light stabilizer (HALS) which is effective in a broad range of polymers and applications. It is non-discoloring, low volatility and excellent resistance to migration, low basicity for reduced interactions with pigments and other stabilizers, and extensive food contact clearances.

Chemical Name

Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy- 2,2,6,6-tetramethyl-1-piperidineethanol

Synonym: Dimethyl succinate polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidine ethanol

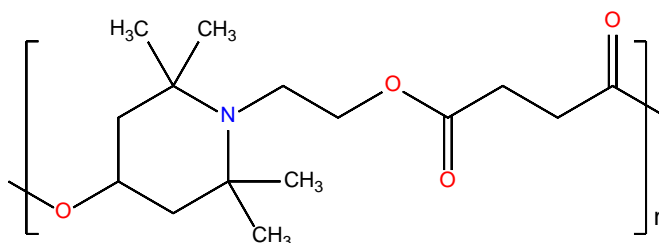
CAS Number

65447-77-0

EINECS Number

613-797-0

Chemical Structure



Chemical Formula

$(C_{15}H_{25}NO_4)_n$

Molecular Weight

3100-4000

Physical Properties

Appearance	White to yellow granular powder
Melting Point (°C)	50-70
Specific Gravity (20°C)	1.22
Volatiles (%)	Max.0.5
Color of solution 425nm (%)	Min.98
Color of solution 500nm (%)	Min.99
Melting Point (°C)	50-70
Ash (%)	Max.0.1

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Solubility

Solubility [20°C]	% w/w
Acetone	4
Chloroform	>40
Ethanol	0.08
Ethyl acetate	3
n-Hexane	<0.01
Methanol	0.05
Methylene Chloride	>40
Toluene	15
Water	<0.01

Benefits & Applications

PowerStab™ 622 is particularly useful in PE applications (injection molding, rotational molding, film, and tape), EVA, PP fibers, polyurethanes, polyacetals, elastomers, adhesives, and sealants. It is also an excellent light stabilizer for systems containing carbon black.

Typical addition levels for PowerStab™ 622 range from 0.05-1.5%, depending upon the application. The exact level to be used in any particular application should be determined in an appropriate testing program.

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.

Packing

PowerStab™622 is supplied in 25kg net/carton.

Note

All information in the leaflet is based on our present knowledge and



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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.