

PowerNox™ 1098 Phenolic Antioxidant

Introduction

PowerNox™ 1098 is an excellent performance effect metal deactivation and antioxidant upon the thermoplastic resins. PowerNox™1098 is highly effective especially in wire and cable applications used as primary insulation of PP, HDPE, LDPE and other elastomers.

Chemical Name

N,N'-Hexamethylenebis(3,5-di-tert-butyl-4-hydroxyhydrocinnamamide)

Synonym: ,3'-Bis(3,5-di-tert-butyl-4-hydroxyphenyl)-

N,N'-hexamethylenedipropionamide

N,N'-hexane-1,6-diylbis[3-(3,5-di-tert-butyl-4-hydroxyphenylpropionamide)]

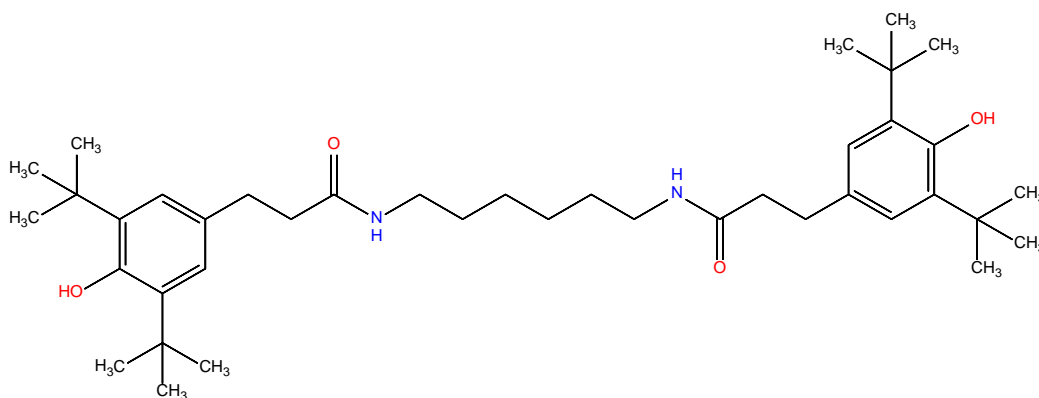
CAS Number

23128-74-7

EINECS Number

245-442-7

Chemical Structure



Chemical Formula

C₄₀H₆₄O₄N₂

Molecular Weight

637

PowerNox™ 1098 Phenolic Antioxidant

Physical Properties

Appearance	White Crystalline Powder
Melting Point [°C]	156-161
Flash Point [°C]	282
Volatile Loss (%)	Max.0.5
Color of Solution 425nm (%)	Min.97
Color of Solution 500nm (%)	Min.98
Ash (%)	Max.0.1
Purity (%)	Min.99

Solubility

Solubility [20°C]	% w/w
Acetone	2
Benzene	0.01
Chloroform	6
Caprolactam	>20
95% Caprolactam + 5% Water	>20
80% Caprolactam + 20% Water	3
Ethyl acetate	1
n-Hexane	0.01
Methanol	6
Water	<0.01

Benefits & Applications

PowerNox™ 1098 is an antioxidant for Polyamide fibers, molded articles and films.

PowerNox™ 1098 can protect polymer color during manufacturing, spinning or thermal fixation.

PowerNox™ 1098 can protect fiber during the last stages of polymerization or by dry blending on Nylon chips.

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.

PowerNox™ 1098 Phenolic Antioxidant

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

PowerNox™ 1098 is supplied in 20Kg Carton Box, 50Kg Fiber Drum.

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.