PowerNox™ 697

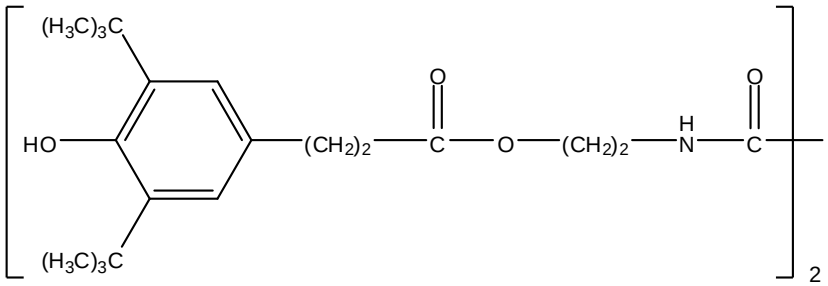
New Materials Creating New Performances

Quality Products.
Dependable Service.

Chemical Name

2,2'-Oxamido bis[ethyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl) -propionate]

Chemical Structure



Introduction

PowerNox™ 697 is a highly effective metal deactivator originated from the family of sterically hindered phenolic antioxidants. Due to its low volatility and nondiscoloring properties, PowerNox™ 697 is ideal for the polymer systems of polyoleffins, polyesters, polyamides, and polyurethane.

Physical Properties

CAS No.	70331-94-1
EC No.	274-572-7
Formula	$C_{40}H_{60}N_2O_8$
Molecular Weight	697
Melting Point(°C)	170-180
Volatile Loss(%)	Max.0.3
Color of Solution 425nm (%)	Min.97
Color of Solution 500nm (%)	Min.98
Appearance	White to Off-White Powder
Flash Point	260℃

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Specific Gravity (20°C)	1.08
Ash(%)	Max.0.1
Min. Purity	98%

Solubility (20°C)	% w/w
Acetone	10
Chloroform	35
Styrene	5
n-Hexane	0.03
Methanol	1.6
Water	<0.01

Applications

PowerNox™ 697 has low volatility and therefore provides long-term heat aging and high temperature processing stability.

The main application for PowerNox™ 697 is in the long term heat stabilization of polyolefins that are in contact with metal ions. Such applications include wire and cable conductors and molded parts having metal inserts.

Handling and Storage

PowerNox™ 697 should be stored in its original packaging at temperatures not exceeding 40℃.

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.

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PACKING

PowerNox™ 697 is supplied in 20kg Fiber Drum.

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