

PowerNox™ 4150

New Materials Creating New Performances

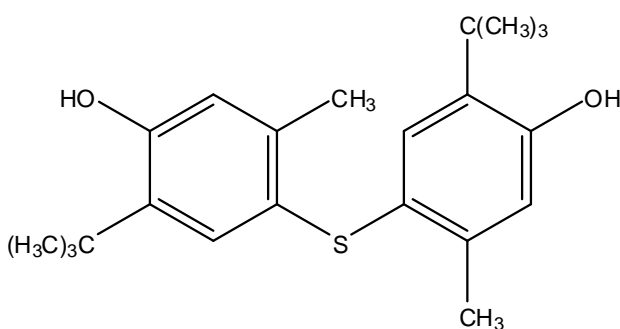
**Quality Products.
Dependable Service.**

CHEMICAL NAME

4,4'-Thiobis(6-tert-butyl-m-cresol)

Synonym: 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol

CHEMICAL STRUCTURE



INTRODUCTION

PowerNox™ 4150 is a primary and Thio's secondary antioxidant for organic polymers. It is also antioxidant for Polyolefins, Polystyrenes, Latex and the raw material of metal deactivator for phosphite.

PHYSICAL PROPERTIES

CAS No.	96-69-5
EC No.	202-525-2
Formula	C ₂₂ H ₃₀ O ₂ S
Molecular Weight	358
Melting Point(°C)	160-164
Volatile Loss(%)	Max.0.5
Color of Solution 425nm (%)	Min.93
Color of Solution 500nm (%)	Min.95

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Appearance	White to Off-white Powder
Ash(%)	Max.0.1
Min. Purity	98%
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Solubility (20°C)	% w/w
Acetone	20
Carbon tetrachloride	0.5
Diethyl ether	0.5
Ethanol	47
n-Hexane	0.5~1
Methanol	79
Water	<0.01

APPLICATIONS

PowerNox™ 4150 is especially used as an antioxidant in HDPE, LDPE for water and gas pipes and high voltage cables.

PowerNox™ 4150 has high resistance to thermo-oxidative degradation and excellent compatibility with peroxide and shows good synergism with carbon black

PowerNox™ 4150 is also used as a polymerization and processing stabilizer for PP, ABS, PVC, EPDM elastomers and Polybutadiene.

PowerNox™ 4150 is effective as an anti skinning agent for hot melt adhesives, an antiscorching agent for PU during condensation of TDI on Polyesters and heat stabilizer for lubricants.

PowerNox™ 4150 is an antioxidant for PVC stabilizer.

HANDLING AND 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.

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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™ 4150 is supplied in 25Kg Carton Box, 50Kg Fiber Drum.

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