

PowerNox™ 4150 Antioxidant

Introduction

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

Chemical Name

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

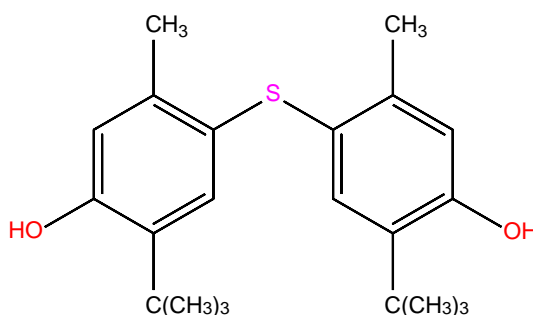
CAS Number

96-69-5

EINECS Number

202-525-2

Chemical Structure



Chemical Formula

$C_{22}H_{30}O_2S$

Molecular Weight

358

Physical Properties

Appearance	White to Off-white Powder
Melting Point (°C)	160-164
Volatile Loss (%)	Max.0.5
Color of Solution 425nm (%)	Min.93
Color of Solution 500nm (%)	Min.95
Ash (%)	Max.0.1
Purity (%)	Min.98

PowerNox™ 4150 Antioxidant

Solubility

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

Benefits & 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 & 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.



PowerNox™ 4150 Antioxidant

Packing

PowerNox™ 4150 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 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.