

PowerNox™ 1425 Antioxidant

Introduction

PowerNox™ 1425 is multifunctional additive that functions as an antioxidant for the stabilization of plastics, synthetic fibers, elastomers, and rosin ester tackifier resins.

Chemical Name

Calcium diethyl bis[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]phosphonate]

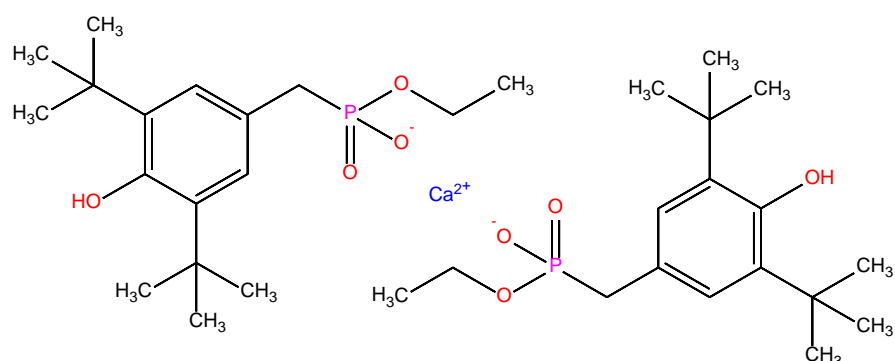
CAS Number

65140-91-2

EINECS Number

265-512-0

Chemical Structure



Chemical Formula

$C_{34}H_{56}O_8P_2Ca$

Molecular Weight

695

Physical Properties

Appearance	White Powder
Melting Point (°C)	Min.260
Flash Point (°C)	Min.150
Specific Gravity [20°C]	1.21

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Solubility

Solubility [20°C]	% w/w
Acetone	0.02
Chloroform	0.01
Ethanol	<0.10
Ethylene glycol	8
n-Hexane	0.02
Methanol	8
Toluene	~0.50
Water	<0.24

Benefits & Applications

PowerNox™ 1425 is particularly useful as a stabilizer and esterification catalyst in rosin esters and in PET and other thermoplastic polyesters.

PowerNox™ 1425 is an effective esterification catalyst that is particularly useful in the production of rosin esters and in the solid-state polymerization of PET and other thermoplastic polyesters.

PowerNox™ 1425 can be used in the stabilization of polyolefins (particularly polypropylene fibers), cross-linked elastomers, and specialty adhesives.

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

PowerNox™ 1425 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.



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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.

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We disclaim liability for any incidental or consequential damages.