

PowerNox™ 1500 Antioxidant

Introduction

PowerNox™ 1500 is a liquid phosphite anti-oxidant with low volatility and excellent compatibility which has been widely used in a variety of polymers. It exhibits excellent thermal and color stability.

Chemical Name

4,4'-Isopropylidenediphenol C12-15 alcohol phosphite

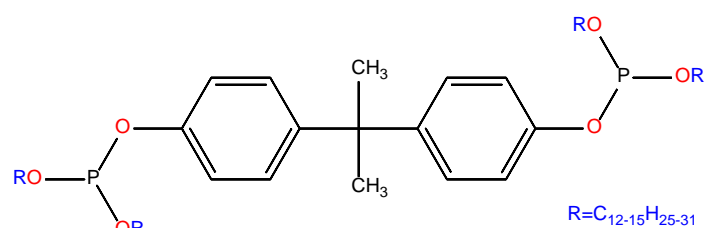
CAS Number

96152-48-6

EINECS Number

306-120-2

Chemical Structure



Chemical Formula

$C_{15}H_{16}O_2$

Molecular Weight

228.29

Physical Properties

Appearance	Clear Liquid
Density [25°C, g/ml]	0.96
Phosphorus Content (%)	5.4
APHA	Max.50
Acid Value (mg KOH/g)	Max.1.2
Volatiles (%)	Max.0.5
Specific Gravity [25°C/15.5°C]	0.965-0.990
Refractive Index [25°C]	1.5040-1.5095
Viscosity [25°C, cPs]	1000

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Solubility

Solubility [25°C]	% w/w
Ethyl acetate	>50
Ethanol	>50
Methyl ethyl ketone	>50
PEG (Mn=400)	>50
Water	<1

Benefits & Applications

PowerNox™ 1500 is used to effectively improve heat and light stability of various kinds of polymers such as PVC and ABS. Its performance will be greatly enhanced if used in combination with certain metal deactivators and epoxy stabilizers.

PowerNox™ 1500 improves the color and light stability and clarity of PVC and vinyl chloride copolymers.

PowerNox™ 1500 can be used in conjunction with primary metal stabilizers and epoxy stabilizers.

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™ 1500 is supplied in 180Kg steel 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.



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