

PowerNox™ EP Antioxidant

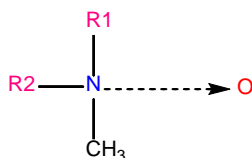
Introduction PowerNox™ EP is a high performance solid, nitrogen-based melt process stabilizer.

Chemical Name Amines, bis(hydrogenated rape oilalkyl)methyl, N-oxides

CAS Number 204933-93-7

EINECS Number 440-250-1

Chemical Structure



R1, R2: C₁₄-C₂₄ Alkyl Chains

Empirical Formula (C_nH_{2n+1})₂-N(O)-CH₃ where n=14 - 24 in general

Molecular Weight 613 avg.

Physical Properties

Appearance	Free-flowing white to off-white powder
Melting Point (°C)	Min.90
Assay (%)	Min.92
Color (2g/50ml IPA solution)	Max.80 APHA
Bulk density (aerate, 20°C, g/cc)	0.54-0.56

Solubility

Solubility [25°C]	g/100g solvent
Acetone	Insoluble (<0.1)
Cyclohexane	Insoluble (<0.1)
Heptane	Insoluble (<0.1)
Isopropyl alcohol	3g
Mineral oil (Mobil Vacuum 3A)	Insoluble (<0.1)
THF	Insoluble (<0.2)
Toluene	0.5



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Water	Insoluble (<0.1)
Xylene	Insoluble (<0.2)

Benefits & Applications

PowerNox™ EP is suitable for use in polypropylene, polyethylene, and other polymers. The main features contain:

- Cost-effective high-performance melt process stabilizer;
- Very effective without phenolic antioxidants;
- Excellent gas fading performance;
- Raw materials are derived from vegetable sources.

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™ EP is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, 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.

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