

PowerNox™ 1135 Phenolic Antioxidant

Introduction

PowerNox™ 1135 is a primary antioxidant for organic polymers. PowerNox™ 1135 exhibits a synergistic effect in combination with phosphites. And it is an Effective, non-discoloring stabilizer that provides excellent long-term stability.

Chemical Name

Octyl-3,5-di-tert-butyl-4-hydroxy-hydrocinnamate

Synonym: Benzenepropanoic acid

3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters

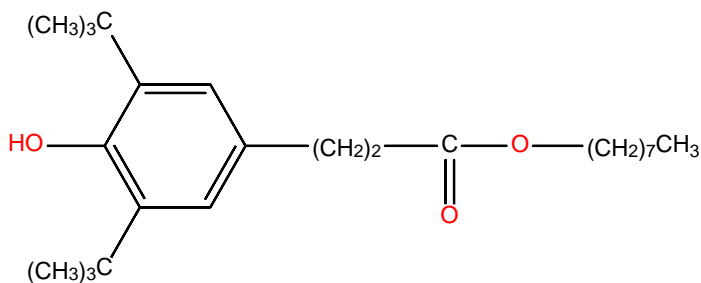
CAS Number

125643-61-0

EINECS Number

406-040-9

Chemical Structure



Chemical Formula

C₂₅H₄₂O₃

Molecular Weight

390

Physical Properties

| | |
|-------------------------|-------------------------------------|
| Appearance | Colorless to Slightly Yellow Liquid |
| Melting Point [°C] | 156-161 |
| Viscosity [25°C, cps] | 220 |
| Specific Gravity [20°C] | 0.95-1.00 |
| Water Content (%) | Max.0.1 |
| Acid (mg KOH/g) | Max.1.00 |
| Purity (%) | Min.98 |

Solubility

| | |
|-------------------|-------|
| Solubility [20°C] | % w/w |
|-------------------|-------|

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| | |
|------------------|-------|
| Acetone | >50 |
| Benzene | >50 |
| Chloroform | 57 |
| Ethyl acetate | >50 |
| n-Hexane | >50 |
| Methanol | >50 |
| Dichloromethane | >50 |
| Polyether Polyol | >50 |
| Polyester Polyol | <10 |
| Water | <0.01 |

Benefits & Applications

PowerNox™ 1135 can be used in a wide range of polymers such as PVC, ABS, PE, Rubbers such as SBR, BR & NBR, synthetic fibers, waxes, fats, oils and lubricants.

PowerNox™ 1135 can be used with benzotriazoles or HALS for thermal and light stabilization in outdoor applications.

PowerNox™ 1135 can be used combination with liquid PowerNox™1135.

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™ 1135 is supplied in 200Kg Epoxy Coating 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



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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.

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