

## PowerNox™ MD1024 Antioxidant

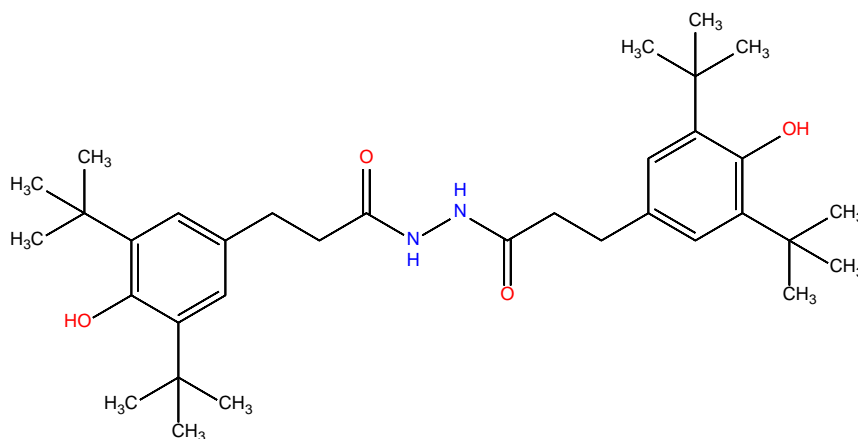
**Introduction** PowerNox™ MD1024 is a metal deactivator and antioxidant for wire and cable, adhesive (both hot melt and solution), and powder coatings applications. It is also an excellent extraction resistant to oil and aqueous media.

**Chemical Name** 2',3-bis [3-(3, 5-di-tert-butyl-4-hydroxyphenyl) propionyl] propionohydrazide

**CAS Number** 32687-78-8

**EINECS Number** 251-156-3

### Chemical Structure



**Chemical Formula** C<sub>34</sub>H<sub>52</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** 553

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### Physical Properties

Appearance	White to off-white crystalline powder
Melting Point (°C)	221-232
Volatile Loss (%)	Max.0.3
Color of Solution 460nm (%)	Min.98
Color of Solution 500nm (%)	Min.99
Color of Methanol Solution	Clear (2g in 100mL)
Ash (%)	Max.0.1
Purity (%)	Min. 98

### Solubility

Solubility [20°C]	% w/w
THF	12.0
Acetone	4
Methanol	4
Chloroform	0.4
Methylene Chloride	0.25
Benzene	0.1
n-hexane	<0.01
Paraffin Oil	<0.01
Toluene	<0.01
Water	<0.01

### Benefits & Applications

PowerNox™ MD1024 is effective in PE, PP, Cross Linked PE, EPDM, Elastomers, Nylon, PU, Polyacetal, and Styrenic copolymers.

PowerNox™ MD1024 can be used as the primary antioxidant or can be used in combination with hindered phenolic antioxidants (particularly PowerNox™ 1010) to achieve synergistic performance.

### 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

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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™ MD1024 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.