

LOWINOX[®] MD24 metal deactivator

Metal Deactivator/Phenolic Antioxidant

Description

LOWINOX[®] MD24 metal deactivator is a metal deactivator that additionally acts as a hindered phenolic antioxidant.

Chemical Name

1,2-Bis(3,5-di-*tert*-butyl-4-hydroxyhydrocinnamoyl)hydrazine

CAS-Number:

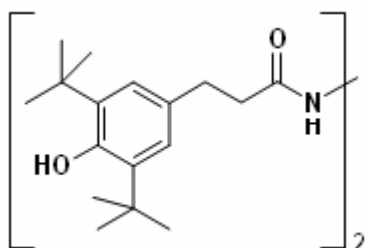
32687-78-8

EINECS-Number:

251-156-3

Formula

LOWINOX[®] MD24 metal deactivator



Typical physical properties of LOWINOX[®] MD24 metal deactivator

Appearance	White powder
Melting range [°C]	221-232
Molecular weight [g/mol]	553
Bulk density [kg/m ³]	425

Solubility (g/100g solvent) @ 20°C

n-Hexane	<0.01	Methylene Chloride	0.2
THF	13	Toluene	<0.01
Acetone	4	Parafin Oil	<0.01
Water	<0.01		

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Application

The presence of transition metal ions in plastics can lead to the introduction and accelerated production of degradation products. **LOWINOX[®] MD24 metal deactivator** combines both an antioxidant and a metal deactivator for outstanding protection in a variety of polymers including polyolefins and elastomers used in applications such as wire and cable insulation. It provides excellent protection from the auto-oxidation process that can occur with the presence of trace metals in polymers from such things as catalyst residue. It is highly recommended when plastic parts are in direct contact with metal pieces (e.g. inserts), and especially in the case of polypropylene in contact with copper. Additionally, it is recommended when standard purity fillers are added to polymer compounds, as these fillers can contain transition metal impurities. Its ideal melting range allows for ease of incorporation into many polymer systems without dispersion problems

No Dust Blends

LOWINOX[®] MD24 metal deactivator can be used in conjunction with phenolic antioxidants (like **ANOX[®] 20 stabilizer**), phosphates, phosphonites, thio-synergists and other coadditives. The compatibility of the product with these coadditives is very good. Tailor-made No Dust Blends containing all necessary stabilizers and additives can be made available for targeted applications. These NDB's offer following benefits:

- Industrial hygiene
- Accurate composition
- Good dispensability
- Improved logistics

Food Contact

This compound has broad food contact approvals; for details please contact Addivant[™] Regulatory Affairs Polymer Additives.

Handling and Storage

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless otherwise stated, the shelf life of the product is 4 years when it is properly stored.

For additional handling and toxicological information consult the Addivant[™] Material Safety Data Sheet.

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