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Irganox[®] MD 1024

Metal deactivator and antioxidant for wire and cable applications

Characterization

Chemical name

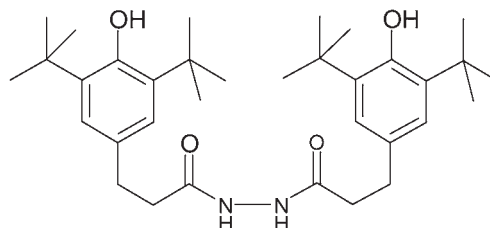
Irganox MD 1024 is a metal deactivator and primary (phenolic) antioxidant

CAS number

2',3-Bis[[3-[3,5-di-tert.-butyl-4-hydroxyphenyl]propionyl]]propionohydrazide

Chemical formula

32687-78-8



Molecular weight

553 g/mol

Applications

- Polyethylene wire and cable resins
- Filled polyolefins
- Polyolefins in contact with copper NBR fuel hoses
- X-SBR
- SBR
- Styrene homo- and copolymers

Features/benefits

As the world's most widely applied metal deactivator for telecommunications wire and cable, Irganox MD 1024 provides unmatched extraction resistance and processing stabilization. Used alone, or with other phenolic antioxidants, such as Irganox 1010, Irganox MD 1024 is recommended for the stabilization of polymers in contact with copper both during processing and long-term service.

Product forms

Irganox MD 1024 white to slightly yellowish crystalline powder

Guidelines for use

For any application in contact with copper during processing or long-term service: 0.1 %–0.2 % Irganox MD 1024.

Physical properties

| | |
|--------------------------|-------------------|
| Melting range | 221–232 °C |
| Flashpoint | > 180 °C |
| Specific gravity (20 °C) | 1.11 g/ml |
| Vapor pressure (20 °C) | approx. 1 E-10 Pa |

| | |
|--------------|-------------|
| Bulk density | |
| Powder | 320–380 g/l |

| Solubility (20 °C) | g/100 g solution |
|---------------------------|-------------------------|
| Acetone | 4 |
| Benzene | 0.1 |
| Chloroform | 0.4 |
| Hexane | < 0.01 |
| Methanol | 4 |
| Water | < 0.01 |

Health & Safety

Irganox MD 1024 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.

Note

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