



**Americas
International**

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Ruthonox TBMC

4,4' – Thiobis (6-tert-butyl-m-cresol)

CAS Reg. No.: 96-69-5

Molecular Weight: 358

Product Data

Revision Date: January 6, 2010

Revision: 0

Function

Ruthonox TBMC is a high activity non-staining, non-discoloring antioxidant for polyolefins, ABS, and natural and synthetic oils.

Major Applications and Properties

- Ruthonox TBMC is a powerful antioxidant for use in applications requiring heat resistance. It is suitable for the protection of black filled, white and light-colored plastics such as PE and PP; in thermoplastic elastomers such as ABS and EP; and in adhesive formulations.
- Because of its low volatility, it has significant advantage over more highly volatile antioxidants, such as BHT and quinines, in high temperature process or end use applications. The typical dosage for stabilization during processing is 0.05 to 0.1%. For stabilization in end use applications, typically levels of 0.1 to 1.5% are employed.
- Ruthonox TBMC provides excellent protection against degradation catalyzed by heavy metals.
- Oxidation of natural and synthetic oils for the fiber finish industry is improved with the addition of 0.05 to 0.5% of Ruthonox TBMC, reducing the buildup of tars and residues on fiber finish equipment.
- Drying oils can be stabilized with 0.05 to 0.5% Ruthonox TBMC to inhibit gelling in storage.
- Ruthonox TBMC is regulated for use in contact with food as specified under 21 CFR 117.2600, 175.105, 178.2010 and under BgVV XXI, Category 1 (EP only) and categories 2-4.

Handling Precautions

For detailed information on toxicological properties and handling precautions, please refer to the current Safety Data Sheet.

Storage Recommendations

Store Ruthonox TBMC in single stacked pallets in a cool, dry, well ventilated area, avoiding exposure of the packaged product to direct sunlight. Double stacking of palletized material and/or exceeding 35° C can result in unusual compaction of product.

Product Information

<u>Product Form</u> Ruthonox TBMC	Powder	
<u>Product Specifications</u> Appearance Melting Point/Final (° C) Heat Loss (%) max. Ash (%) max. Residue on 20 mesh screen (%) max. Residue on 30 mesh screen (%) max.	White Powder 160-163 0.5 0.1 0.0 0.2	<u>Inspection Method</u> Visual GBT/T 11409.1-95 GB 11409.4-89 GB 11409.7-89 GB 11409.5-89 GB 11409.5-89
<u>Typical Properties</u> Specific gravity at 25° C	1.09	