



## BNX® TAHQ

### Antioxidant and Thermal Stabilizer

**Introduction:** BNX® TAHQ is a sterically hindered dihydroxybenzene antioxidant and stabilizer. BNX® TAHQ is non-staining and non-discoloring antioxidant recommended for use in unvulcanized rubber adhesives, tapes and films.

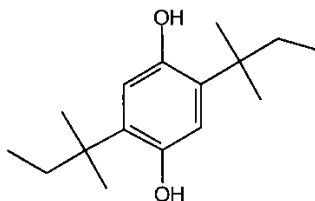
**Material Description:** Antioxidant and Thermal Stabilizer

**Chemical Name:** 2,5-Di(tert-amyl) hydroquinone

**Empirical Formula:** C<sub>16</sub>H<sub>26</sub>O<sub>2</sub>

**CAS#:** 79-74-3

#### Chemical Structure:



<b>Physical Properties:</b>	Appearance:	White to cream colored powder
	Molecular Weight:	250
	Melting Range:	177-179°C
	Ash:	0.1% Max.
	Volatile Matter:	0.5% Max.
	Specific Gravity:	1.05 (25°C)

**Solubility:**

**Solubility at 20°C (g/100ml solvent):**

Solvent	Solubility
Acetone	72
Diethylether	130
Ethanol	68
Toluene	3
Water	< 0.01

**Applications:**

BNX® TAHQ provides highly effective protection against oxygen and sun crack. Recommended applications include hot melt adhesives, uncured rubber adhesives, adhesive films for tape applications and polymer stabilization.

**Advantages:**

- Non-staining and non-discoloring
- Improves long-term stability
- Prevents loss of tack
- Decreases oxygen uptake

**Loading  
Instructions:**

The loading data and results are based on laboratory work (and field testing) under controlled conditions and do not necessarily indicate the result that the buyer or user will attain. For this reason we strongly recommend testing of your own system under the actual conditions of processing and end-use prior to full scale testing. The recommended loading concentrations range between 0.5% and 1.5% depending on substrate, processing conditions, and long-term stability requirements. Exact loading must be determined by compositions of the specific polymer system.

**Packaging:**

BNX® TAHQ can be packaged in various weights, contact your Mayzo representative.

**Storage:**

This product may be stored up to one year in a sealed container. We recommend transferring the unused portions of open bags to a sealed container to maintain product life and effectiveness. Product 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.

**Toxicity &  
Safety:**

This material is not intended for use in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specially intended, unless the finished product has been tested in accordance with the Food and Drug Administration and/or other applicable safety testing requirements. Because of wide range of such potential uses, Mayzo, Inc. is not able to recommend this material as safe and effective for such uses and assumes no liability for any such uses. Read and understand the Material Safety Data Sheet before using or handling this product.

**FDA Regulations:**

BNX® TAHQ is approved for use in articles in contact with food as specified under FDA 21 CFR 177.2600, 175.105.

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