



## BNX™ 565

### Antioxidant & Thermal Stabilizer

**Introduction:** BNX™ 565 is a high molecular weight; non-staining, multifunctional antioxidant developed for the stabilization of unsaturated elastomers (BR, IR, SBR, SIS, SBS, *etc.*), hot melt adhesives, and rosin ester tackifier resins.

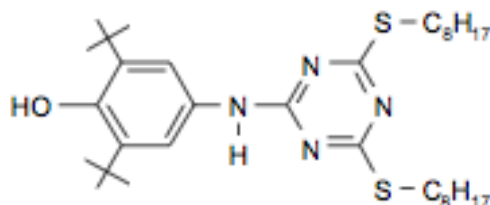
**Material Description:** Antioxidant and thermal stabilizer

**Chemical Name:** 2,6-Di-*tert*-butyl-4-(4,6-bis(octylthio)-1,3,5-triazin-2-ylamino)phenol

**CAS #:** 991-84-4

**Molecular Weight:** 589 g/mol

**Chemical Structure:**



**Physical Properties:** Appearance: White to yellowish crystalline powder  
Melting point: 94-96°C

**Solubility (20°C):**

Solvent	Solubility (wt. %)
Acetone	20
Benzene	43
Chloroform	39
Ethyl acetate	46
Hexane	6
Methanol	1.4
Water	<0.01

**Applications:** BNX™ 565 is a highly effective antioxidant for unsaturated elastomers such as polybutadiene, polyisoprene, styrene-butadiene rubber, and styrenic block copolymers such as SIS and SBS. BNX™ 565 is also useful for the stabilization of hot melt adhesives (especially those derived from unsaturated elastomers) and rosin ester tackifier resins.

**Advantages:**

- Highly effective to prevent gel formation and discoloration in unsaturated elastomers, even at reduced concentrations vs. conventional antioxidants
- Non-discoloring and non-staining
- Low volatility

**Guidelines for Use:**

Recommended concentrations range from 0.02 to 1%, depending on the substrate, application and conditions of use. Please consult your Mayzo representative for a recommendation for your specific application. Performance data for BNX™ 565 is also available upon request.

Please note that all technical recommendations and performance data 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 in your own formulation under the actual conditions of processing and end-use prior to full-scale testing. Furthermore, the user of the product must make its own determination and satisfy itself that the use of the product (i) is in compliance with environmental, health and safety regulations and (ii) will not infringe any third party's intellectual property rights.

**Packaging:**

BNX<sup>®</sup> 565 is available in powder form in either a 50 kg (110.23 pound) fiber drum, net weight, with an inner PE liner or a 25 kg (55.115 pound) Carton with PE liner.

**Storage:**

This product may be stored up to two years in sealed containers. Containers should be stored in cool, dry areas. Extended storage at elevated temperatures or exposure to direct heat could reduce product shelf life. Keep containers sealed when not in use and during transport.

**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 handling or using this product.**

**FDA Regulations:**

Contact your Mayzo representative for the latest information on the FDA status of this product.

Mayzo, Inc.  
3935 Lakefield Court  
Suwanee, GA 30024

Product Data Sheet  
BNX™ 565  
[www.mayzo.com](http://www.mayzo.com)

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Supersedes: 01/12/09  
Phone: (770) 449-9066

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