

MAYZO

BNX[®] 1077
A Liquid Antioxidant & Thermal Stabilizer



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BNX[®] 1077

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Introduction BNX[®] 1077 is a liquid sterically hindered phenolic antioxidant. BNX[®] 1077 is an effective, non-discoloring stabilizer that provides excellent long term stability and is a liquid. It can be used in a wide range of polymers such as PVC, ABS, & PE, rubbers such as SBR, BR, & NBR, synthetic fibers, waxes, fats and oils.

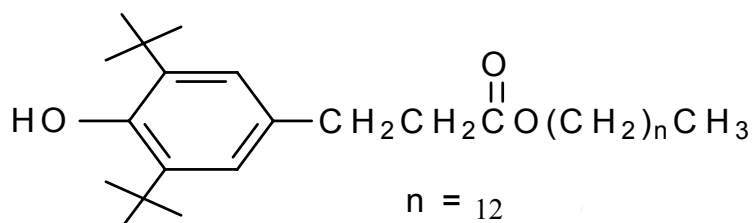
Material Description: Liquid Antioxidant and Thermal Stabilizer

Chemical Name: Benzenepropanoic acid,
3,5-bis (1,1-dimethylethyl)-4-hydroxy-, isotridecyl ester

Empirical Formula: C₃₀H₅₂O₃

CAS Number: 847488-62-4

Chemical Structure:



Physical Properties:	Appearance:	Viscous Liquid
	Color:	Light yellow
	Molecular Weight:	460.7
	Freeze Point:	-56 °C
	Boiling Point:	230°C (446 °F) @ 0.5 mmHg
	Vapor Pressure:	1.66 hPa @20 °C
	Percent Volatile:	< 0.5%
	Specific Gravity (H ₂ O=1):	0.94 @ 25 °C
	Solubility in water@ 20 °C:	<0.1 ppm

Applications BNX[®] 1077 is a low viscosity liquid antioxidant that can be used as a stabilizer for a variety of polymer applications. BNX[®] 1077 is an excellent antioxidant for PVC polymerization, in polyols for polyurethane foam manufacturers, ABS emulsion polymerization, LDPE /LLDPE polymerization, hot melt adhesives (SBS, BR, &NBR) and tackifiers, oils and resins. The alkyl chain adds compatibility and solubility to various substrates.

Advantages

- No solvents due to being a liquid.
- Excellent compatibility with plastics, rubber, adhesives, and waxes.
- Excellent compatibility with fats and oils.
- Non-staining and non-discoloring.
- Improvement of long-term stability.
- Low viscosity, low volatility
- Ease of compatibility with other stabilizers

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 0.1 – 1.0% by weight. Exact loading must be determined by compositions of the specific polymer system.

Packaging

BNX[®] 1077 is available in a liquid form in a 185 kg (407.74 pounds) epoxy coated drum.

Storage

BNX[®] 1077 should be stored in a closed system and be kept dry.

**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:

For FDA approvals for indirect food contact, please contact your Mayzo representative.

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