**BLS® 2908**

**Benzoate Light Stabilizer for Plastics**

**Overview**

BLS 2908 is a benzoate-type light stabilizer that functions by scavenging free radicals formed during the photodegradation of plastic materials. Combinations of this product with hindered amine light stabilizers (HALS) often provide superior performance vs. HALS used alone, especially in polyolefin substrates. BLS 2908 is non-discoloring, has good compatibility with polyolefin substrates, is resistant to extraction, and is FDA-cleared for use in polyolefins.

**Chemistry**

- **Chemical Name:** Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, hexadecyl ester
- **CAS Number:** 67845-93-6
- **Chemical Structure:**

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O       O
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O       O
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**Typical Properties**

- **Product Form:** Solid
- **Melting Range:** 55 – 65°C
- **Molecular Weight:** 474.8 g/mol

**Solubility (percent by weight, 20°C)**

- **Water:** <0.01

**Applications**

BLS 2908 is a benzoate-type light stabilizer recommended for use in combination with HALS and (optionally) UV absorbers in polyolefins. Potential applications include polypropylene and TPO thick-section parts and polyethylene (HDPE, LLDPE, LDPE) moldings, films, and tapes.
Advantages

- Provides excellent light stability to polyolefins and other plastics when used in combination with HALS and (optionally) UV absorbers
- Improves the stability of polyolefins during processing and end use at moderate temperatures
- Non-discoloring
- Excellent compatibility with polyolefins, resistant to extraction and migration
- Low volatility
- FDA-cleared for use in polyolefins

Guidelines for Use

Recommended concentrations in polyolefins range from 0.1 to 0.5%. The use of BLS 2908 in combination with HALS such as BLS 1770 and/or BLS 1944 is recommended for thick-section polypropylene applications. These combinations generally give superior performance as compared to HALS used alone. In some cases the addition of a UV absorber such as BLS 531 or BLS 1326 can provide further improvements in performance. In polyethylene the use of BLS 2908 in combination with HALS such as BLS 783 or BLS 1944 is recommended. The exact formulation to be used is dependent on the substrate, performance requirements, and other factors, and should be determined by the user based on testing to simulate actual conditions of use. Please contact Mayzo for specific recommendations.

Storage

This product may be stored up to two years in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

Safety

Please consult the Safety Data Sheet (SDS) prior to handling or using this product.

FDA Regulations

BLS 2908 has been cleared for use in olefin polymers under 21 CFR §178.2010. Please contact your Mayzo representative for complete details, including restrictions of use.