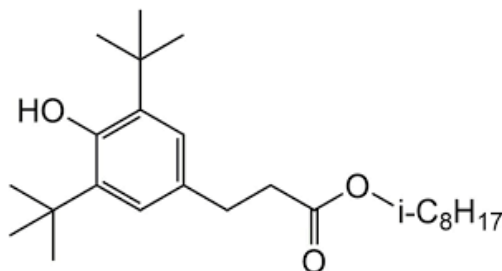


PUREstab L 135

Liquid Antioxidant for Plastics and Lubricants

Description *PUREstab L 135* is a liquid hindered phenolic antioxidant that is highly effective thermal stabilization of plastics (especially polyurethanes and polyols) and lubricants (especially industrial lubricants and engine oils).

Chemical Structure



Chemical name Benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C₇-C₉ branched alkyl-esters

CAS number 125643-61-0 **Molecular weight** 390 g/mol

Features & benefits *PUREstab L 135* offers excellent antioxidant performance with the ease of a pumpable liquid. *PUREstab L 135* also prevent fogging in automotive applications and prevent staining of textiles due to its low volatile and excellent compatibility properties. In addition, the liquid nature and low volatile is suitable properties where neat liquids, emulsions, suspensions, solutions or melts are an integral part of polymer manufacturing and processing. In lubricants, *PUREstab L135* provides excellent thermal oxidative stability at low treat levels as well as resistant to water extraction.

Applications Usage of *PUREstab L 135* include thermal stabilization of plastics, especially polyols and polyurethanes *PUREstab L 135* stabilize polyurethane flexible slab stock foams as well as preventing the formation of peroxides in the polyol during storage, transport, and further protects against scorching during foaming. *PUREstab L 135* is ideal to be use in lubricants which include compressor oils, engine and turbine.

Recommended usage levels are:

- 0.1 – 0.5% in polyurethane and polyol applications, and in industrial
- 0.2 – 0.8% in lubricants

PUREstab L 135 can be pumped or poured for ease of handling and efficient incorporation. Addition of *PUREstab L 135* to the process stream can be done in terms of dissolved, dispersed or as pure liquid. Enhancement of its performance can be achieved in combination with other phenolic antioxidants, substituted aromatic amines, and/or with co-stabilizers such as UV absorbers and hindered amines. The exact formulation to be used is dependent on the substrate, performance requirements, and should be determined by the user based on testing.

TECHNICAL DATA SHEET

Polygel Product Management

Email: info@polygelbrunei.com



Handling & Safety In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Use only with adequate ventilation. For more detailed information please refer to the material safety data sheet.

Storage *PUREstab L 135* may be stored up to 2 years under inert and closed containers at ambient temperature. Containers should be kept tightly closed when not in use.

Packaging Available in 200 kg drums and 1000 kg IBC.

Typical Properties:

Physical form	Colourless to slightly yellow liquid		
Freezing point	<-30°C		
Solubility (% by weight @ 20°C)			
Acetone	>50	n-Hexane	>50
Benzene	>50	Mineral oil	>5
Chloroform	57	Polyetherpolyol	>10
Dichloromethane	>50	Polyesterpolyol	<10
Ester oil	>5	Water	<0.01
Hexane	<0.1		

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Rev:01/ Aug, 2021