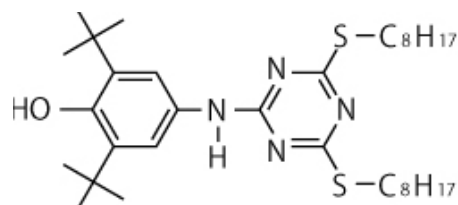


# PUREstab 565

## Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

**Description** **PUREstab 565** is a high molecular weight, non-staining, multifunctional phenolic antioxidant primarily used as a post-polymerization process stabilizer for unsaturated elastomers.

### Chemical Structure



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

**CAS number** 991-84-4 **Molecular weight** 589 g/mol

**Features & benefits** **PUREstab 565** is highly effective at low concentrations, matching the performance of other stabilizers at higher levels. It is non-staining and due to its low volatility, it is not lost during polymer processing, drying or storage. It can be used in a wide variety of applications. In unsaturated elastomers, **PUREstab 565** prevents gel formation, maintains excellent polymer colour, and prevents changes to molecular weight.

**Application** **PUREstab 565** is a highly effective antioxidant for a variety of elastomers including polybutadiene (BR), polyisoprene (IR), emulsion styrene butadiene (SBR), nitrile rubber (NBR), carboxylated SBR Latex (XSBR), and styrenic block copolymers such as SBS and SIS. **PUREstab 565** is also used in adhesives (hot melt, solvent-based), natural and synthetic tackifier resins, EPDM, ABS, high impact polystyrene, polyamides, and polyolefins.

The use levels of **PUREstab 565** vary by polymer and range from 0.05% to 0.5%. The relatively low melting point allows easy dispersion in elastomeric substrates by commonly used melt com-pounding techniques or it can be incorporated into process streams by dissolving in suitable organic solvents or aromatic extender oils.

**Handling & Safety** **PUREstab 565** exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use. For more information, please refer SDS.

**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.

# TECHNICAL DATA SHEET

Polygel Product Management

Email: [info@polygelbrunei.com](mailto:info@polygelbrunei.com)



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## Physical Properties:

Product form	White powder or Granules		
Melting range	91 – 96°C		
Flashpoint	285°C		
Specific gravity (20°C)	1.09 g/ml		
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution		
- Acetone	20.0	- Chloroform	39.0
- Benzene	43.0	- Methanol	1.4
- Ethyl-acetate	46.0	- n-hexane	6.0
- Water	<0.01		

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November' 2019