

# **EVERNOX®-565**

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

**Chemical Name** 2,6-di-tert-butyl-4-[[4,6-bis(octylthio)-1,3,5-triazin-2-yl]amino]phenol

**Structure** 

Molecular Weight 589 g/mol

**CAS Number** 991-84-4

Specification Criterion Requirement

Appearance White to slightly yellow powder

Transmittance at 425 nm: 90.0% min

at 500 nm: 95.0% min

Ash 0.1% max Volatiles 0.5% max Assay 98.0% min

### **Physical Properties**

Melting range (°C) 91-96°C Flash point (°C) 285

Specific gravity (20°C) 1.09 g/cm<sup>3</sup> Vapor Pressure (20°C) 1.3 E-8 Pa

Solubility (20°C) % w/w

 Acetone
 20

 Benzene
 43

 Chloroform
 39

 Ethyl acetate
 46

 n-Hexane
 6

 Methanol
 1.4

 Water
 <0.01</td>

#### **Applications**

EVERNOX-565 is a non-staining multifunctional antioxidant with highly effective stabilization for a variety of elastomers including polybutadiene (BR), polyisoprene (IR), emulsion styrene butadiene (SBR). It can also be applied in adhesives (hot melt and solvent-based), natural and synthetic tackifier resins, EPDM, ABS, impact polystyrene, polyamides, and polyolefins.

EVERNOX-565 is highly effective at low concentrations, matching the performance of other stabilizers at higher levels. It can be used in a wide variety of applications. The effectiveness of this product used in unsaturated elastomers prevents the gel formation, maintains excellent polymer color, and prevents molecular weight changes.

#### **Handling & Safety**

EVERNOX-565 should be handled with care and prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

#### **Packing**

The following packages are available upon customer's request:

- (1) 20-kg paper bag.
- (2) 25-kg  $\times$  2 PE bag in the carton box.
- (3) Other specific request.

#### **Transportation**

EVERNOX-565 is not dangerous materials according to the transportation regulations.

#### Storage

EVERNOX-565 should be stored under suitable conditions (dry & cool).



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