

# SABOSTAT® DELA

Diethanolamide anti-stat additive for plastics

## COMPOSITION

Chemical name	Dodecanamide, N,N-bis(2-hydroxyethyl)-
Common name	Lauryl diethanolamide
CAS number	120-40-1

## TYPICAL PROPERTIES

Appearance (20°C)	Off-white pellets
Color (Hazen, 50°C)	Max. 250
Melting temperature	Min. 40°C
Water content	Max. 0.5%
Bulk density	430-480 kg/m <sup>3</sup>

## FEATURES

- Provides faster anti-static effect as compared to ethoxylated alkylamines
- Provides longer term anti-static effect as compared to glycerol monostearate
- Effective as an anti-stat even under low humidity conditions
- Low-basicity as compared to ethoxylated alkylamines
- Pellet product form that is easy to handle and dose

## APPLICATIONS

SABOSTAT® DELA is a diethanolamide which is useful as an internal anti-static additive for plastics, especially polyolefins (PE, LDPE, PP), styrenic polymers (PS, ABS, SAN), and PVC.

This product is ideal for use as an anti-stat in electronics packaging applications due to its low moisture sensitivity and low basicity. It is also useful in automotive applications where it provides a fast de-molding effect. Furthermore, because of its conformity to pharmacopeia it finds broad use in medical applications.

## GUIDELINES FOR USE

Typical addition levels for SABOSTAT® DELA range from 0.1 to 2.5%, depending upon the substrate, processing conditions, and the end use application.

In polyolefins, typical addition levels range from 0.2 to 0.5% for food and pharmaceutical packaging. Addition levels of 0.2 to 2.5% are typical in styrenic polymers, and 0.2 to 0.5% in PVC.

The exact level to be used in any application should be determined in an appropriate testing program.

Polymer Additives

**VOLATILITY (TGA weight loss temperatures, 20°C/min, in air)**

5%	245°C
10%	270°C
50%	350°C

**PACKAGING**

20 kg net in plastic bags packed in boxes (400 kg per pallet), pallet type CP1

**HANDLING & STORAGE**

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

SABOSTAT® DELA has a melting point of *ca.* 40–42°C. The pelletized/granulated product has an inherent tendency to agglomeration. If properly stored in a dry place at temperatures below 25°C, SABOSTAT® DELA will remain within specification limits for at least 18 months. Longer-term storage and/or storage at higher temperatures may lead to agglomeration. Product handling can be severely impacted while the chemical nature of the product remains unchanged.

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