

# DEUTERON LE 829

## Additive to antistatically equip polyurethane-foams

---

### Chemical Description

Tetraalkylammoniumethylsulphate combined with 1.4-butandiol

### Physical Data

Appearance	light yellow liquid
Viscosity	approx. 400 mPa·s
Specific Weight	approx. 0,98 g/cm <sup>3</sup>
pH-Value	approx. 8 (1 % in dist. water)
Acid Value	less than 7
Hydroxyl Value	approx. 180
Flash Point	does not apply

### Properties

DEUTERON LE 829 is of high polarity and thus noticeably reduces the electrical resistance of polyurethane-foams, even when used in small quantities.

### Application

DEUTERON LE 829 is designed to be used as an antistatic agent for polyurethane compounds based on polyester and polyether. These compounds are used in the production of soles with antistatic character as required by EURO-NORM 344 or for special shoes for use in computing and medical areas.

### Dosage

An obliging suggestion cannot be given here. The exact dosage depends on the formulation, the density of the foam and the required resistance of the final product.

An addition of 2,5 % calculated on the total composition of a polyester compound with a density of 0,6 g/cm<sup>3</sup> gives resistance of less than 50 megaohm. This meets the requirement of EN 344 regarding the electrical resistance. The hydroxyl value of DEUTERON LE 829 has to be considered to ensure an optimal cross-linking.

Further decrease in resistance will be obtained when a higher dosage of DEUTERON LE 829 is used. In this case it should be taken into consideration that there might be an impact on the physical properties of the final product. The exact dosage should be determined by own trials.

### Processing

DEUTERON LE 829 can be easily added to the compound in its delivery form at room temperature and below. The product has not to be warmed up.

### Storage Conditions

DEUTERON LE 829 can be stored in its original tightly closed containers for at least 24 months at room temperature. DEUTERON LE 829 solidifies at low temperatures. It liquefies again by storing it at room temperature.

### Package Sizes

Sheet steel hobcock UniGrip (25 kg net)  
Steel barrel with lid (200 kg net)

### Safety Regulations

DEUTERON LE 829 is classified as a dangerous product according to the EU Directive 67/548/EWG and its amendments and therefore has to be marked: Xn - less toxic  
N - dangerous for the environment

---

This leaflet intends to give technical advice without warranty and does not claim to be complete.

### DEUTERON GmbH

P.O. Box 1645 – D-28822 Achim – HRB Walsrode 120187  
Phone ++49 (0)421 / 48 32 27 – Fax ++49 (0)421 / 48 36 02  
www.deuteron.com – contact@deuteron.com

V01.085008

Page 1 of 1