



DEUTERON LE 50, LE 80

Antistatic Additives based on Quaternary Ammonium Compounds in Butanol

■ Product Characteristic

Deuteron	LE 50	LE 80
Active content	approx. 50 %	approx. 80 %
Solvent	Butanol	
Viscosity	approx. 20 mPa*s	approx. 150 mPa*s
Density	approx. 0.89 g/cm ³	approx. 0.94 g/cm ³
Acid number	approx. 2.5 mg KOH/g	approx. 3.5 mg KOH/g
pH-value	approx. 7.5 (1 % in water)	approx. 8.0 (1 % in water)
OH-content	approx. 11.5 %	approx. 4.6 %
Ionogenicity	cationic	
Appearance	clear colourless liquids	



■ Product Description

Deuteron LE 50 and Deuteron LE 80 are conductivity additives based on tetraalkylammonium ethyl sulphate. The use of our anti-static additives allows the adjustment of the surface and volume resistivity in various systems. The effect of Deuteron's anti-static additives is mainly based on surface migration and the ionic character of the cations.

Deuteron LE 50 and Deuteron LE 80 are liquid products diluted in 1-Butanol. Due to their cationic character and the associated extremely high polarity, the products dissolved in butanol considerably reduce the electrical resistance of organic solvents and their mixtures.

The products are miscible in all solvent mixtures commonly used in coatings, partly slight turbidity can occur.

Because of its lower active content Deuteron LE 50 carries a less critical GHS labelling. As labelling regulations differ for certain regions please check the safety data sheet for your country for more details.

■ Applications

Deuteron LE 50 and LE 80 are mainly developed to adjust the resistivity of electrostatic spray paints. They can be used in air-drying as well as forced-drying primers and top coats. For use in isocyanate-systems the proportion of hydroxy groups of the Butanol can be taken in consideration.

Please refer to our separately available 'Conductivity Agents' brochure.

■ Dosage

Deuteron LE 50: approx. 0.3 % to 4 %.
Deuteron LE 80: approx. 0.2 % to 2 %.

The exact quantities to be used depend on the system and must be determined individually for the intended application.



Technical Data Sheet

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Deuteron[®]
ADDITIVES TO YOUR SUCCESS

■ Processing

Deuteron LE products can be added to the system at any time during the production process or they can be used as post addition additives to further adjust resistivity.

■ Storage Conditions

24 months in tightly closed original containers at room temperature.

At low temperatures a viscosity increase or solidification can occur. The product can be regenerated by applying gentle heat. The temperature should not exceed 60 °C.

■ Package Sizes

Steel drum (25 kg net)
Steel drum (185 kg net)

■ Safety

According to Regulation (EC) No. 1272/2008
Deuteron LE 50 and LE 80 are classified as dangerous products and therefore needs to be labelled.

For detailed information please refer to the Safety Data Sheet and Regulatory Information Sheet. The documents are also available on our website:

<https://www.deuteron.com/en/download-center/>

■ Deuteron: First class products for the coating industry

Deuteron GmbH successfully develops and sells innovative additives since 1977. Our product range consists of matting agents, anti-static additives, texturing additives, thickeners and UV initiators. In the course of our company history we have become an important partner of the national and international paint, lacquer and coating industry with sales partners around the globe.

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



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