



Technical Data Sheet

DEUTERON LE 50 UV

Antistatic Additive based on Quaternary Ammonium Compounds in DPGDA

Deuteron[®]
ADDITIVES TO YOUR SUCCESS

■ Product Characteristic

Appearance	slightly yellowish liquid
Active content	approx. 50 %
Reactive thinner	Dipropylene glycol diacrylate
Viscosity	approx. 150 mPa*s
Density	1.05 g/cm ³
Acid number	approx. 7 mg KOH/g
Ionogenicity	cationic

■ Product Description

Deuteron LE 50 UV is a conductivity additive 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 UV is a liquid product diluted in DPGDA. In UV and EB curable systems the use of Deuteron LE 50 UV leads to a significant reduction of resistivity and prevents the build-up of electrostatic charge.

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 UV 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 UV is suitable for solvent containing or 100 % UV or EB curing systems to reduce the possibility of electrostatic charges. Typical applications include:

- › Anti-static floor coatings
- › Label printing
- › Foil coatings
- › Textile printing (especially small labels)



■ Dosage

Typical addition level: 0.2 % - 5 %

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



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■ 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 40 °C)

■ Package Sizes

Steel drum (25 kg netto)
Steel drum (200 kg netto)

■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron LE 50 UV is classified as dangerous product 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.



DEUTERON GmbH
In den Ellern 2-4
28832 Achim, Germany

Phone: +49 (0) 421 48 99 03-0
Fax +49 (0) 421 48 99 03-60

Mail contact@deuteron.com
URL www.deuteron.com

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