

Product Bulletin

ZELEC® TY

Product Name

Chemical Description

Applications

Typical Properties

Usage Rates

Health Effects

Storage & Handling

Workplace Exposure

Neutralized alcohol phosphate

ZELEC TY is an effective antistatic agent for use in polyolefin fibers, plastics and films and on carpet. It can be applied by padding, impregnating, spraying or coating followed by drying in standard equipment.

Functional Properties

- Lowers electrical resistivity to the surfaces to which it is applied when used in an environment with adequate atmospheric moisture.

End Product Uses

- Wetting/antistatic agent for use where water repellency properties are desired, especially when used in conjunction with fluorochemical water repelling products.

Appearance at 25 °C Clear to hazy yellow liquid
 Density at 25 °C, g/ml (lbs/U.S. gal) 1.18 (10.0)
 Solids, % 50
 Flash Point (PMCC), °C (°F) >94 (>201)
 Boiling Point at 760mmHg, °C (°F) 100 (212)
 pH, as is 7.0
 Solubility at 25 °C (77 °F):
 Isopropanol Soluble
 Water >50%
 Hydrocarbons Insoluble
 Stability at 25 °C (77 °F):
 Acids Separates below pH = 4
 Bases Stable

Textiles: Aqueous solutions of 2% or more should satisfactorily wet out even hard-to-wet synthetic materials, as well as provide uniform coverage and good antistatic properties while not markedly reducing the water repellency of the substrate.

Carpet applications: Used at 0.5% on the weight of the surface fiber as an effective anti-static agent for nylon with little adverse effect to dry soiling. It can be used with other anionic-based carpet protection formulations.

ZELEC TY is practically non-toxic orally (LD₅₀=20371 mg/kg) and causes severe skin and eye irritation at 50% active. The product is not mutagenic.

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling ZELEC TY. ZELEC TY is severely irritating to eyes and skin, contact with eyes and skin should be avoided. ZELEC TY should be stored in a cool, dry place in closed containers.

Standard Packaging: ZELEC TY is available in bulk and drums.

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace practices should be used to control these exposures.



Clearances

The international inventories (country clearances) of ZELEC TY can be found in Section 15 of the Safety Data Sheet (SDS). It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used. If you have any further questions regarding inventories, please contact North American Technical Service at techserv@stepan.com.

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Product Stewardship

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

Additional Safety Information

A Safety Data Sheet is available upon request.



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