

Product Bulletin

Product Name	MAKON® UD-8
Chemical Description	C11 Alcohol Ethoxylate, 8 EO
Applications	MAKON UD-8 can be used in a wide variety of consumer and functional applications due to its degreasing power, fast wetting speed, emulsification, and low gel curve. Some applications include hard surface cleaning, degreasing, and laundry. MAKON UD-8 can function as a replacement for Tridecyl Alcohol Ethoxylates and Nonyl Phenol Ethoxylates due to its branched structure, low gel curve, and performance attributes.
CAS Registry No.	127036-24-2
Typical Properties	<p>Appearance at 25 °C (77 °F) Clear to hazy liquid</p> <p>Actives, % 100</p> <p>Water, % 0.25</p> <p>pH, 10% aqueous 8.0</p> <p>Color, APHA..... 75</p> <p>HLB 13.2</p> <p>Molecular weight, g/mol 525</p> <p>Viscosity at 25 °C (77 °F), cps 213</p> <p>Viscosity at 50 °C (122 °F), cps 25</p> <p>Flash Point (PMCC), °C (°F)..... >94 (>201)</p> <p>Cloud Point, 1% aqueous, °C (°F) 64 (147)</p> <p>Pour Point, °C (°F) 15 (59)</p> <p>Freeze Point, °C (°F) 13 (55)</p> <p>Density at 25 °C (77 °F), g/ml (lbs/U.S. gal) 1.01 (8.41)</p> <p>Density at 50 °C (122 °F), g/ml (lbs/U.S. gal) 1.00 (8.33)</p> <p>Surface Tension at 0.1%, dynes/cm 27.2</p> <p>Draves Wetting, 0.1% aqueous, at 25 °C (77 °F), sec 4</p> <p>Critical Micelle Concentration, mg/L 357.8</p> <p>RVOC, U.S. EPA, % 0</p> <p>Preservative None required</p>
Environmental Effects	MAKON UD-8 is expected to be readily biodegradable. Additional information is available upon request.
Health Effects	MAKON UD-8 is expected to be slightly toxic orally (LD50>2000 mg/kg, rat), and undiluted is moderately to severely irritating to skin and eye.
Storage & Handling	<p>Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling MAKON UD-8. Avoid contact with eyes or nose, or prolonged contact with the skin. Wash thoroughly after handling.</p> <p>MAKON UD-8 is not prone to gelling when diluted in water.</p>



Storage & Handling

Standard Packaging: MAKON UD-8 is available in drums and totes.

Packaging Storage Information: MAKON UD-8 should be stored in original containers and kept in a cold, dry place away from incompatible materials. As a general rule for alcohol ethoxylates, non-bulk packages should be stirred to ensure they are homogeneous before use. If material is frozen, it should be heated gently and stirred to ensure it is homogeneous before use. Product should be stored between 0 °C (32 °F) to 30 °C (86 °F).

Clearances

The international inventories (country clearances) of MAKON UD-8 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 America Technical Service at techserv@stepan.com.

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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