



Product Bulletin

Product Name

Chemical

Applications

Description

CAS Registry No.

Typical Properties

MAKON® UD-7

C11 Alcohol Ethoxylate, 7 EO

MAKON UD-7 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-7 can function as a replacement for Tridecyl Alcohol Ethoxylates and Nonyl Phenol Ethoxylates due to its branched structure, low gel curve, and performance attributes.

127036-24-2

Appearance at 25 °C (77 °E)	Clear to bazy liquid
Appearance at 25 °C (77 °F)	Clear to riazy liquid
Actives, %	100
Water, %	0.25
pH, 10% aqueous	8.0
Color, APHA	75
Color, APHAHLB	12.8
Molecular Weight, g/mol	482
Viscosity at 25 °C (77 °F), cps	
Viscosity at 50 °C (122 °F), cps	
Flash Point (PMCC), °C (°F)	
Cloud Point, 1% aqueous, °C (°F) Pour Point, °C (°F)	53 (128)
Pour Point, °C (°F)	12 (54)
Freeze Point, °C (°F)	9 (48)
Density at 25 °C (77 °F), g/ml (lbs/U.S. gal)	
Density at 50 °C (122 °F), g/ml (lbs/U.S. gal)	
Surface Tension at 0.1%, dynes/cm	
Draves Wetting, 0.1% aqueous, at 25 °C (77 °F), sec	
Critical Micelle Concentration, mg/l	304.6
Critical Micelle Concentration, mg/L	0.+0
Preservative	None required
1 10301 valive	

Environmental Effects

Health Effects

Storage & Handling

MAKON UD-7 is expected to be readily biodegradable. Additional information is available upon request.

MAKON UD-7 is expected to be slightly toxic orally (LD50>2000 mg/kg, rat), and undiluted is moderately to severely irritating to skin and eye.

Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling MAKON UD-7. Avoid contact with eyes or nose, or prolonged contact with the skin. Wash thoroughly after handling.

MAKON UD-7 is not prone to gelling when diluted in water. It has been observed that MAKON UD-7 has a viscosity maximum at 70% solids in water, but the product will remain a fluid.

April 2019

Page 1 of 2



Storage Handling Standard Packaging: MAKON UD-7 is available in drums and totes.

<u>Packaging Storage Information</u>: MAKON UD-7 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-7 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 <a href="technical-technical

Product Stewardship

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

A Safety Data Sheet is available upon request.



The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law."

Stepan

Corporate Headquarters Northfield, Illinois 60093, U.S.A. Phone: 847-446-7500

Fax: 874-501-2100 Website: www.stepan.com For Technical Service Call:
Stepan North America +1-800-745-7837
Stepan Mexico +55-11-5089-2208
Stepan Quimica +55-11-5089-2200
Stepan Colombia +571-636-2808
Stepan Europe +33-476-505-160
Stepan Asia +656-879-9855
Stepan Philippines +656-879-9855

For Customer Service Call:
Stepan North America +1-800-457-7673
Stepan Mexico +52-555-533-1967
Stepan Quimica +55-11-5089-2200
Stepan Colombia +57-6-8993125
Stepan UK +44-161-338-5511
Stepan France +33-476-50-51-00
Stepan Philippines +63-2-842-7951

April 2019

Page 2 of 2