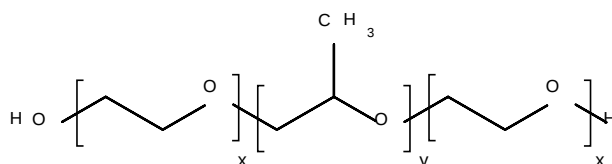


Product Bulletin

Product Name

MAKON® L62

Chemical Structure



Chemical Description

Polyalkylene Glycol

CAS Registry Number

9003-11-6

INCI Name

Poloxamer 182

Applications

MAKON L62 is a nonionic EO/PO block copolymer that exhibits low foaming, good oil-in-water emulsification properties, and water solubility. MAKON L62 can be used in a variety of markets including Household, Industrial, Institutional, Agriculture, Paints and Coatings, Metalworking, Pulp and Paper, and Textiles. Applications for best fit are metal cleaning, spray wash, warewash, rinse aids, general purpose cleaning, textile wetting, and agricultural pesticide formulations. MAKON L62 is a low ash product.

Typical Properties

Appearance at 25 °C	Clear to Slightly Hazy Liquid
pH, 2.5% Aqueous	5-8
Actives, %	100
Water, %	0.4 max
Color, APHA	50 max
HLB	7
Average Molecular Weight, g/mol	2500
Hydroxyl Value, mg KOH/g	45
Cloud Point, 10% Aqueous °C (°F)	24 (75)
Cloud Point, 1% Aqueous °C (°F)	32 (90)
Pour Point, °C (°F)	-41 (-42)
Flash Point, °C (°F)	> 94 (> 201)
Viscosity at 25 °C (77 °F) / 38 °C (100 °F), cps	466 / 221
Density at 25 °C (77 °F), g/mL (lb/U.S. gal)	1.04 (8.65)
Density at 38 °C (100 °F), g/mL (lb/U.S. gal)	1.03 (8.57)
Surface Tension, 0.1% Aqueous, dynes/cm	42.3
Interfacial Tension with Light Mineral Oil, 0.1% Aqueous, dynes/cm	13.9
Draves Wetting at 25 °C (77 °F), 1.0% / 0.1% Aqueous, sec	32 / > 90
Foam Height, Ross-Miles at 25 °C (77 °F), 0.1% Aqueous, Initial / 5 min, mm	16 / 1
Foam Height, Ross-Miles at 50 °C (122 °F), 0.1% Aqueous, Initial / 5 min, mm	20 / 8
Foam Height, Blender at 25 °C (77 °F), 0.1% Aqueous, Initial / 5 min, mm	29 / 11
Solubility in Water at 25 °C (77 °F)	Soluble > 10 wt%
RVOC, U.S. EPA, %	0
Preservative	None required



Environmental Effects

Publically available data shows this type of chemistry to be inherently biodegradable.

Storage & Handling

Standard Packaging: MAKON L62 is available in drums, totes, and bulk quantities.

Non-Bulk Storage Recommendations: MAKON L62 should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). If material is frozen, it may be fluidized by warming with a drum heater or in a steam room. Drums should be vented prior to heating to avoid excessive pressure build up.

Bulk Storage Recommendations: MAKON L62 should be stored in vessels of 316 stainless steel, but carbon steel is adequate assuming effective moisture exclusion. Elevated storage temperature may be desirable to maintain ease of pumping.

Product temperatures over 122 °F (50 °C) are not recommended.

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling MAKON L62. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling MAKON L62.

Workplace Exposure

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

Clearances

All components of MAKON L62 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Australia (AICS 9003-11-6), Canada (DSL 9003-11-6), China (IECSC 9003-11-6), Japan (ENCS (7)-1246), Korea (ECL Serial No. KE-24574), New Zealand (NZIoC 9003-11-6), Philippines (PICCS 9003-11-6), Taiwan (TCSI 9003-11-6), and United States (TSCA 9003-11-6).

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.

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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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**