



Formulation

Name	STREAK-FREE GLASS, MIRROR AND WINDOW CLEANER	
No.	1294	
Description	Stepan has found that the pairing of MAKON® L61, an EO/PO block copolymer and STEPANTEX® CO-36, an ethoxylated castor oil used in this low-foam, easy-to-wipe formulation is highly effective at cleaning dirt and grime while maintaining a beautiful streak-free shine. Ethoxylated nonionic surfactants are not a typical choice in glass cleaners due to potential filming issues, but these nontraditional glass cleaning ingredients are a perfect combination, leaving even mirrors clean and bright.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	98.20 Diluent
	MAKON® L61	0.05 Cleansing Agent
	STEPANTEX® CO-36	0.15 Cleansing Agent
	Isopropanol	1.50 Solvent
	Monoethanolamine	0.10 pH Adjuster
	Preservative, Fragrance, and Dye	q.s. Additives
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water. 2. Start mixing and add Isopropanol. 3. Add Monoethanolamine. 4. Add MAKON® L61 and STEPANTEX® CO-36. 5. Lastly, add Preservative, Fragrance, and Dye if needed. 6. Mix until homogeneous. 	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	10-11
	Viscosity at 25°C, cps	Water thin
	% VOC, as is	1.5
	Flash Point (PMCC), °F	204.8
Storage/Stability	Freeze/Thaw, 3 cycles	Pass
	4 weeks at 50°C	Pass
	4 weeks at 25°C	Pass
	4 weeks at 4°C	Pass
Instructions for Use	Spray on mirror or glass surface and wipe clean with paper towel or cloth.	
External Comment	Marketing Notes: This formulation meets U.S. Federal and all State Volatile Organic Compounds (VOC) standards for Non-aerosol Glass Cleaners as of January 2019 (excluding additives). Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer, for which Stepan bears no responsibility.	
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Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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Revision Date: Publication Date: 03/25/2019 © 2019, Stepan Company. All rights reserved.