



Formulation

Name	SOLVENT-FREE SPRAY AND WIPE CLEANER	
No.	1180	
Description	This ready-to-use hard surface cleaner combines anionic and nonionic surfactants for effective cleaning of particulate, grime, and oily soils. The STEPOSOL® amides provide solvo-surfactant properties, replacing traditional solvents. For use on surfaces in kitchens, bathrooms, restaurants, hotels, or anywhere general purpose cleaning is needed.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	97.9 Carrier
	BIO-SOFT® D-40	1.0 Cleansing Agent
	BIO-SOFT® N91-6	0.4 Emulsifier, Cleansing Agent
	STEPOSOL® M-8-10	0.5 Surfactant, Solvent
	Sodium Citrate	0.2 Builder
	Fragrance, Preservative and Dye	q.s. Additives
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water. 2. With good agitation, add Sodium Citrate. 3. Slowly blend in BIO-SOFT® D-40, followed by BIO-SOFT® N91-6. 4. Continue mixing until homogenous. 5. Blend in STEPOSOL® M-8-10. 6. Add Fragrance, Preservative and Dye as needed. 7. Mix until homogenous. 	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	7.5-8.5
	Viscosity at 25°C, cps	Water thin
Storage/Stability	Freeze thaw, 3 cycles	Pass
	4 weeks at 50°C	Stable
	4 weeks at 25°C	Stable
	4 weeks at 4°C	Stable
Instructions for Use	Spray on soiled surface. Wipe clean with a sponge or cloth.	
	Test Method: ASTM D4488-95-A5, ASTM Book of Standards, Volume 15.04, D4488-95, Section A5 87% soil removed.	
External Comment	Marketing Notes: This formulation meets US Federal and all State VOC standards for general-purpose cleaners as of January 2019. If desired, BIO-SOFT® N1-7, MAKON® DA-6, BIO-SOFT® EC-690, BIO-SOFT® N-900 can be substituted for BIO-SOFT® N91-6 and STEPOSOL® MET-10U can also be substituted for STEPOSOL® M-8-10.	
Registered Trademarks	STEPOSOL® BIO-SOFT®	

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For
Additional
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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