



# Formulation

Name	OVEN CLEANER CONCENTRATE		
No.	1217		
Description	This concentrate is designed to be diluted with water and used as a high performance, mildly-alkaline oven cleaner that is effective on the toughest burnt-on soils.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	BIO-SOFT® N91-6	55.0	Emulsifier
	STEPOSOL® MET-10U	25.0	Surfactant/Solvent
	Monoethanolamine (Dow)	20.0	Buffer
	Total	100.0	
Procedure	1. Charge BIO-SOFT® N91-6 in mixing vessel. 2. Blend in STEPOSOL® MET-10U. 3. Add Monoethanolamine. 4. Mix until homogenous.		
Physical Properties	Appearance at 25°C	Clear liquid	
	pH, diluted 1:4	11.1 – 11.8	
	Viscosity (as is) at 25°C, cps	<100	
	VOC, diluted 1:4 (calculated), %	4.0	
Storage/ Stability	Freeze/thaw, 3 cycles	Pass	
	1 month at 50°C	Pass	
	1 month at 25°C	Pass	
	1 month at 4°C	Pass	
Instructions for Use	Dilute 1:4. Allow to penetrate two hours. Wipe with a damp sponge. Diluted formulations will have cloud points <50°C, which can be raised with a standard hydrotrope such as STEPANATE® SXS, if desired.		
External Comment	Marketing Notes: Please refer to the Safety Data Sheet for global regulatory information. It is the responsibility of the end user to review the chemical control regulations for each country. BIO-SOFT® N91-6 is an approved ingredient on www.cleangredients.org. For further information, visit www.cleangredients.org. When used as an oven cleaner at Stepan's recommended dilution level of 1:4, this formulation is VOC-compliant with California Air Resource Board (CARB) Consumer Products regulation for non-aerosol oven cleaners (4% VOC limit as of December 31, 2011). For U.S. formulators, ; STEPOSOL® MET-10U is a low vapor pressure VOC (LVP-VOC), therefore its contribution to the VOC calculation is zero. STEPOSOL® MET-10U does not contribute to the VOC calculation because of its high boiling point and low vapor pressure. STEPOSOL® MET-10U and its formulations clean baked-on soils by a different mechanism than traditional oven cleaners. Rather than dissolving these soils with harsh, caustic cleaners that have a pH >12, Stepan's formulation uses a lower, more mild pH to break down soils for easy removal in one step. Before using on plastic, hard or painted surfaces, spot test on an inconspicuous area first.		

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BIO-SOFT®  
STEPOSOL®

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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