



# Formulation

Name	<b>ECONOMY TOUCHLESS TRUCK WASH</b>	
No.	1108	
Description	This formulation removes typical dirt build-up on the vehicle without the need for brushes, bristles, or any mechanical action recommended for use in touchless wash systems.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	Metso 20 (PQ) Sodium Metasilicate Pentahydrate	3.0 Builder
	=== Phase 2 ===	
	Versene 100 (Dow Chemical) Tetrasodium EDTA	15.0 Chelating Agent
	STEPANATE® SXS	5.0 Hydrotrope
	BIO-TERGE® PAS-8S	5.0 Primary Surfactant
	MAKON® 10	5.0 Emulsifier
	Dye	q.s. Additive
	Fragrance	q.s. Additive
	<b>Total</b>	<b>100.0</b>
Procedure	1. Charge tank with Deionized Water. 2. Add the Metso 20. Thoroughly mix until dissolved. 3. In Phase 2, add ingredients in order shown to Phase I. Mix thoroughly until homogeneous.	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, as is	13.0
	Viscosity at 25°C, cps	Water thin
	Solids, %	18.0
	VOC (calculated) at 1:50 dilution level, %	<0.1
Storage/ Stability	1 Month at 25°C	Stable
	1 Month at 4°C	Stable
	1 Month at 50°C	Stable
	Freeze/ Thaw, 3 Cycles	Stable
Instructions for Use	This formulation is to be diluted to 1:50 and applied with the proper vehicle wash equipment.	
External Comment	Marketing Notes: When used at Stepan's recommended dilution level of 1:50, this formulation is VOC-compliant with U.S. Federal and California Air Resource Board (CARB) Consumer Products regulation for non-aerosol, motor vehicle wash (0.2% VOC limit as of December 31, 2012). BIO-TERGE® PAS-8S and STEPANATE® SXS are both approved ingredients on <a href="http://www.cleangredients.org">www.cleangredients.org</a> . For further information, visit our website or <a href="http://www.cleangredients.org">www.cleangredients.org</a> .	
Registered Trademarks of Stepan	BIO-TERGE® MAKON® STEPANATE®	

Company

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.

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

**Stepan** 

Stepan Company  
Northfield, Illinois 60093  
Telephone (847) 446-7500

Revision Date:      Publication Date: 09/01/2009    © 2013, Stepan Company. All rights reserved.