



# Formulation

Name	<b>CAR WASH/BOAT WASH</b>	
No.	1328	
Description	<p>Achieve powerful performance and an improved environmental profile of your vehicle care cleaning products. This car wash/boat wash can be used at full strength or diluted for light cleaning and touch-ups. The formulation contains BIO-SOFT® DR-13 and STEPANATE® SXS, which are listed on CleanGredients, and meet the criteria for direct release for use in outdoor products certified by the U.S. EPA's Safer Choice Program. BIO-SOFT® DR-13 provides cleaning against greasy and oily soils, while the foam clings to the surface. The hydrotrope STEPANATE® SXS, builder, and chelating agent complete the formulation without the need for harsh solvents that can affect finishes. Whether it be a car wash, boat wash, outdoor cleaner, or pressure washer, BIO-SOFT® DR-13 is a versatile nonionic surfactant that will help meet your formulating needs. Green Your Clean using Stepan Ingredients!</p>	
Formulation	<p><b>INGREDIENTS:</b></p> <p>Deionized water          BIO-SOFT® DR-13          Alkyl Polyglucosides, 50% solution          STEPANATE® SXS          Methylglycine N,N-Diacetic Acid (MGDA), 40% solution          Citric Acid</p> <p><b>Total</b></p>	<p><u>% by Weight</u>    <u>Functionality</u></p> <p>q.s. to 100.0 Diluent          3.0 Cleansing Agent          1.0 Foaming and Cleansing Agent, Hydrotrope          1.5 Hydrotrope          2.4 Chelating Agent          q.s. pH Adjuster, Builder</p> <hr/> <p style="text-align: right;"><b>100.0</b></p>
Procedure	<p>1. Mix STEPANATE® SXS and Deionized Water.          2. Slowly add MGDA, 40% solution, and mix until thoroughly dissolved.          3. Add in BIO-SOFT® DR-13 and Alkyl Polyglucosides with mixing.          4. Add Citric Acid to adjust pH to 10-11. The typical amount needed is 0.1% to 0.05% by weight.</p> <p>-</p> <p>Alternate Ingredients:          1. BIO-SOFT® DR-139 can be used as an alternate to BIO-SOFT® DR-13. Adjust amount to 3.5% by weight.          2. Tetrasodium Glutamate Diacetate (GLDA), 47% solution can be used as an alternate chelating agent to MGDA, 40% solution. Adjust amount to 2.5% by weight.</p>	
Physical Properties	<p>Appearance at 25°C          pH, as is          Viscosity at 25°C, cps          VOC, as is (calculated), %</p>	<p>Clear liquid          10 - 11          Water thin          0</p>
Storage/Stability	<p>Freeze/Thaw, 3 cycles          4 weeks at 50°C          4 weeks at 25°C          4 weeks at 4°C</p>	<p>Pass          Stable          Stable          Stable</p>
Instructions for Use	<p>Recommended dilution level is 1:10 to 1:40.</p>	

External  
Comment

Marketing Notes: All Stepan ingredients in this formulation are approved for use in direct release applications under the surfactant screen of the U.S. EPA Safer Choice Standard and are listed on [www.cleangredients.org](http://www.cleangredients.org). Safer Choice formulations for outdoor use must contain chemicals that meet the U.S. EPA Safer Choice criteria for direct release products (<https://www.epa.gov/saferchoice/products>). U.S. EPA's Safer Chemical Ingredient List (SCIL) can be found at <https://www.epa.gov/saferchoice/safer-ingredients>. This formulation is Volatile Organic Compound (VOC) compliant with U.S. Federal and all State VOC standards for general-purpose cleaners as of January 2019 (excluding additives). "Improved environmental profile" and "green" refer to the use of Stepan ingredients that are considered favorable by the U.S. EPA Safer Choice standard (<https://www.epa.gov/saferchoice/safer-choice-standard>). The manufacturer is responsible for the use of other "green" ingredients, including but not limited to Chelating Agent, Builder, Preservative, Fragrance, and/or Dye. Use of the term "green" or other environmental claims on the finished product or label is at the sole risk of the finished product manufacturer, for which Stepan bears no responsibility. Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer."

Registered  
Trademarks  
of Stepan  
Company

BIO-SOFT®  
STEPANATE®

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.

The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. **STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY.** Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.



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

Revision Date:      Publication Date: 10/14/2019    © 2019, Stepan Company. All rights reserved.