

Name **VERSATILE RINSE AID**

No. 1342

Description Rinse aids provide a sheeting action that reduces drying time and enhances shine on dishes.

This premium liquid rinse aid formulation contains MAKON® NF-180, a de-foaming nonionic surfactant with excellent wetting properties, and citric acid which helps prevent calcium salt deposits left behind by hard water and food soils. These ingredients work together to leave your

dishes, glassware, and utensils spot and film free.

INGREDIENTS: Formulation % by Weight Functionality

> **Deionized Water** q.s. to 100 Diluent

MAKON® NF-180 15.0 Wetting Agent, Cleansing Agent STEPANATE® SCS 10.0 Hydrotrope

Citric Acid, anhydrous 5.0 Chelating Agent Colorant and Preservative g.s. Additives

Total 100.0

Procedure

- 1. Add Deionized Water to the vessel.
- 2. With agitation, incorporate STEPANATE® SCS.
- 3. Add MAKON® NF-180 while mixing.
- 4. Add Citric Acid and mix until homogeneous.
- 5. Add Colorant and Preservative as needed.

Physical Appearance at 25°C Clear liquid Cloud Point (as is), °C (°F) **Properties** 75 (167)

Cloud Point (1% by weight), °C (°F) 33 (91) Viscosity at 25°C, cps <50

Storage/

Pass 10 Freeze/Thaw Cycles Stability 4 weeks at 60° Stable

4 weeks at 25°C Stable 4 weeks at 10°C Stable 3 weeks at -15°C Stable

Instructions for Use

For home use, pour formulation into dishwasher's rinse aid compartment to dispense appropriate amount into the final rinse cycle. For industrial and institutional applications, meter into warewash machine, using an automated injector system that adds the product to the final rinse.

External Comment

Marketing Notes: This formulation offers the flexibility of being useful in multiple dish wash applications, including household, institutional, and industrial. In addition, it is free from solvent and volatile organic components.

Registered **Trademarks** of Stepan Company

MAKON® 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: 03/10/2020 © 2020, Stepan Company. All rights reserved.