1-TO-9 DILUTABLE FAST-WETTING GLASS AND WINDOW CLEANER CONCENTRATE

No. 1110

Description This environment-friendly concentrate may be suitable for Safer Choice certification, containing Stepan surfactants that are approved on www.cleangredients.org (BIO-SOFT® N1-7 and BIO-TERGE® PAS-8S) and a solvent that is listed on the U.S. EPA’s Safer Chemical Ingredient List (SCIL). The nonionic surfactant used, BIO-SOFT® N1-7, allows the cleaner to wet and spread over surfaces quickly and efficiently, while the specialty anionic surfactant, BIO-TERGE® PAS-8S, improves the final appearance with reduced filming and streaking on glass. See Stepan Company’s Formulation # 1092 for a ready-to-use version of this Formulation. Green Your Clean using Stepan ingredients!

Formulation INGREDIENTS:

--- Phase 1 ---
Deionized Water 71.2 Diluent
BIO-TERGE® PAS-8S 18.0 Hydrotrope, Cleansing Agent

--- Phase 2 ---
BIO-SOFT® N1-7 1.8 Wetting Agent, Cleansing Agent

--- Phase 3 ---
Isopropanol 9.0 Solvent

--- Phase 4 ---
Fragrance, Preservative, and Dye q.s. Additives

Total 100.0

Procedure 1. Charge Deionized Water and BIO-TERGE® PAS-8S.
3. Once clear, add Isopropanol.
4. Add Fragrance, Preservative and Dye.
5. Mix until homogenous.

Physical Properties

Appearance at 25°C Clear liquid
pH, as is 5
Viscosity at 25°C Water thin
% VOC, as is (calculated) 9.9
% VOC at 1 to 9 dilution (calculated) <1
Flash Point, °F, PMCC 115

Storage/ Stability

Freeze thaw, 3 cycles Pass
1 month at 50°C Stable
1 month at 25°C Stable
1 month at 5°C Stable
Instructions for Use

Dilute 1 part concentrate with 9 parts water. Spray on mirror or glass surface and wipe clean with paper towel or cloth.


External Comment

Marketing Notes: At use dilution, this formulation meets U.S. Federal and all State Volatile Organic Compounds (VOC) standards for Non-aerosol Glass Cleaners of January 2019 (excluding additives). BIO-TERGE® PAS-8S is an approved ingredient on www.cleangredients.org. It also does not contain nonylphenol ethoxylates (NPEs). “Environment-friendly” and “Green” refer to the use of ingredients that are considered favorable by the U.S. EPA Safer Choice standard (https://www.epa.gov/saferchoice/safer-choice-standard). U.S. EPA’s Safer Chemical Ingredient List (SCIL) can be found at https://www.epa.gov/saferchoice/safer-ingredients. Label and/or trademark usage of the final product is the sole responsibility of the finished product manufacturer, for which Stepan bears no responsibility.

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BIO-TERGE®
BIO-SOFT®

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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