

Name LAUNDRY STICK PRE-TREATER

No. 1141

Description A stick formulation is a great option for travel or on-the-go products. This formulation also

contains enzymes to help treat and remove stubborn protein-based stains.

Formulation INGREDIENTS: % by Weight Functionality

BIO-SOFT® N25-7

Propylene Glycol
Stearic Acid (powder or flake)
Sodium Hydroxide (50% aqueous solution)
Protease
Deionized Water and Fragrance

46.0 Surfactant
31.0 Structure Agent
8.5 Structure Agent
2.5 Neutralizer
1.5 Enzyme
q.s. to 100 Additives

Total 100.0

Procedure

- 1. Add Propylene Glycol with mixing.
- 2. Add 1/2 of the calculated Deionized Water charge with mixing.
- 3. Add Sodium Hydroxide with mixing.
- 4. Add remaining Deionized Water charge with mixing and heat batch to 165°F–175°F (74°C–79°C).
- 5. Add BIO-SOFT® N25-7 with mixing.
- 6. Add Stearic Acid with mixing. Mix for a minimum of 20 minutes until all Stearic Acid dissolves in solution. Temperature must be maintained between 165°F–175°F (74°C–79°C).
- 7. Sample batch for pH. pH of a 1% aqueous solution of the formula should be between 8.8 and 9.3. If pH is below 8.8, adjust into range with 50% Sodium Hydroxide. If above pH 9.3, adjust into range with Hydroxhloric Acid.
- 8. Once pH is measured to be in spec, cool batch to 130°F–135°F (54°C–57°C), and then add Fragrance with mixing.
- 9. Transfer batch to run tank.
- 10. Inject Protease in-line with batch compound at filling heads with mixing.

Pnysicai	
Properties	

Appearance at 25°C pH, 1% aqueous Hardness Opaque solid 8.8–9.3 (Target 9.1) 30.0–75.0 (Reading with

penetrometer using standard

cone)

Storage/ Stability 4 Weeks at 5°C Pass
4 Weeks at Room Temperature Pass
4 Weeks at 40°C Pass

Instructions for Use

- 1. Before use, test product on an inconspicuous area.
- 2. Apply pre-treater to stained area, rubbing into fabric. Completely cover the stain.
- 3. Let stand one minute. If desired, wait up to one week before washing.
- 4. Wash according to care label instructions. Launder in the warmest water recommended for fabric.

Registered Trademarks of Stepan Company **BIO-SOFT®**

For Additional Assistance For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (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 Northbrook, Illinois 60062 Telephone (847) 446-7500

Revision Date: 05/13/2022 Publication Date: 09/30/2010 © 2022, Stepan Company. All rights reserved.