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VANDERBILT

Formula



“Green” Liquid Cleanser
Formula No. 592

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**“Green” Liquid Cleanser
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A synergistic combination of **VAN GEL® B** Magnesium Aluminum Silicate and **VANZAN®** Xanthan Gum provides suspension of the natural abrasive, pumice, in this easy-to-make formula. **ALPHA-STEP® MC-48** is a green surfactant that is biodegradable and not derived from a petroleum source. This cleanser also contains d-limonene, a very effective, naturally-occurring, biodegradable solvent and degreaser.

Ingredients	% By Weight
A Water	68.50
VAN GEL B Magnesium Aluminum Silicate	1.10
VANZAN Xanthan Gum	0.40
B Pumice (Hess Pumice Grade: FFFF ¹)	20.00
C Sodium Methyl 2-sulfolaurate & Disodium 2-sulfolaurate (ALPHA-STEP® MC-48 ²)	5.00
Orange Oil (Tech Grade d-limonene ³)	5.00
D Preservative	q.s.

¹Hess Pumice Products, Inc., Malad City, ID

²Stepan Company, Northfield, IL

³Florida Chemical, Inc., Winter Haven, FL

Procedure:

Step 1.) Slowly add the **VAN GEL B** and **VANZAN** sequentially or as a dry blend into an established vortex in the water. Mix at maximum available shear until the **VAN GEL B** is fully hydrated* and the **VANZAN** is dissolved.

Step 2.) Slowly add the pumice and mix until uniform.

Step 3.) Reduce the mixing speed to a minimum; add the Part C & D ingredients in order, mixing after each addition, until uniform. Avoid air entrapment.

This formula passed three (3) months of laboratory stability testing at room temperature, 5°C, 38°C, and 45°C. It had an acceptable appearance after a 3-cycle freeze/thaw.

*Refer to the **VEEGUM® /VAN GEL** Magnesium Aluminum Silicate Brochure for hydration guidelines.

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