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# VANDERBILT *Formula*

## “Green” Waterless Hand Cleaner No. 609

**VanBrite™ 553** Abrasive Mineral Slurry provides the physical cleaning action in this waterless hand cleaner while **VANZAN®** Xanthan Gum thickens and stabilizes the formula. A select blend of environmentally friendly solvents, d-limonene and soy-based methyl ester, effectively removes grease and other materials from the hands. This formula can be used as a rinse-off heavy duty hand cleaner as well as a wipe-off waterless hand cleaner.

	Ingredients	% By Weight
A	<b>VanBrite™ 553</b> Abrasive Mineral Slurry	65.00
	Water	17.75
	<b>VANZAN®</b> Xanthan Gum	0.75
B	Propylene glycol, USP	5.00
	Sodium Lauryl Sulfate (Calfoam® SLS-30 <sup>1</sup> )	1.50
	Orange Oil (tech grade d-limonene <sup>2</sup> )	5.00
	C16-C18 Methyl Ester/Sodium Dioctyl Sulfosuccinate Surfactant	5.00
	Blend (SoyGold® 2500 Rinseable Solvent <sup>3</sup> )	
C	Preservative	q.s.

<sup>1</sup> Pilot Chemical Company, Cincinnati, OH

<sup>2</sup> Florida Chemical, Inc., Winter Haven, FL

<sup>3</sup> Ag Environmental Products, Omaha, NE

### Procedure:

**Step 1.** With adequate mixing, add the water to the **VanBrite 553** Abrasive Mineral Slurry. Next, slowly sift in the **VANZAN** Xanthan Gum and mixing until it is fully dissolved\*.

**Step 2.** Add the Part B ingredients and mixing thoroughly after each.

**Step 3.** Add the preservative (Part C) and mix thoroughly.

\*Refer to the **VANZAN** Xanthan Gum brochure for solution preparation guidelines.

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**R.T. Vanderbilt Company, Inc., 30 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150**  
**Telephone: (203) 853-1400 - Fax: (203) 853-1452 - Web Site: [www.rtvanderbilt.com](http://www.rtvanderbilt.com)**

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