

Liquid Cleanser with Bleach No. 552

		Wt. %
A	VAN GEL[®] O Magnesium Aluminum Silicate	4.0
	Water	62.0
B	NaOH, 50% solution	1.0
	Commodity NaOCl, 12.5% solution	12.0
	Sodium Dodecyl Diphenyl Oxide Disulfonate (CALFAX [®] DB-45 ¹)	1.0
	Calcium Carbonate (#8 White ²)	20.0

Procedure:

Step 1 – Sift the **VAN GEL[®] O** into an established vortex in the water. Mix at maximum available shear until fully hydrated.

Step 2 – Slowly add the NaOH solution while mixing. Careful control of the mixing speed is required during this step because the viscosity of the batch will increase. Mix until smooth.

Step 3 – Check the pH of the batch: it should be >pH 12. Reduce the mixing speed and slowly add the NaOCl.

Step 4 – Reduce the mixing speed to a minimum, then add the surfactant. Avoid air entrapment.

Step 5 – Slowly add the calcium carbonate and mix very slowly until homogeneous. Avoid air entrapment.

Note: The amount of NaOH in the formula is critical: percentages above or below that listed will be detrimental to the physical and/or bleach stability of the formula. Some of the other factors that can influence both the physical stability and bleach stability of this formula are: any factor that will accelerate bleach decomposition, e.g. metallic contaminants; the amount and source of the commodity bleach; the source of the caustic; the amount and type of surfactant; and the storage conditions of the finished product. It is recommended that the physical and bleach stability profile of this formula be verified.

RAW MATERIAL SUPPLIERS

¹Pilot Chemical Company, Cincinnati, OH

²Imerys, Inc., Roswell, GA

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