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VANDERBILT *Formula*

"Green" Toilet Bowl Cleaner Formula No. 593



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“Green” Toilet Bowl Cleaner No. 593

The synergistic combination of **VAN GEL**[®] **ES** Magnesium Aluminum Silicate and **VANZAN**[®] Xanthan Gum provides excellent dispensing properties and surface cling in this easy-to-make formula. Natural L(+)- lactic acid is produced from the fermentation of carbohydrates. It is used in this cleaner for descaling. ALPHA-STEP[®] MC-48 is a “green” biodegradable surfactant derived from natural sources other than petroleum.

Ingredients:	% By Weight
A Water	84.80
VAN GEL ES Magnesium Aluminum Silicate	1.40
VANZAN Xanthan Gum	0.30
B L(+)-lactic acid, 80% (PURAC [®] Sanilac ¹)	10.00
Sodium Methyl 2-sulfolaurate & Disodium 2-sulfolaurate (ALPHA-STEP [®] MC-48 ²)	3.50

¹PURAC America, Lincolnshire, IL

²Stepan Company, Northfield, IL

Procedure:

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

Step 2. Slowly add the Part B ingredients, mixing well after each until uniform. Avoid air entrapment.

This formula passed two (2) months of laboratory stability testing at room temperature, 5°C, 38°C and 45°C.

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

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