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FreshCUP DETERGENTS – FREEZE AND THAW TEST

The test was conducted according to the ASTM procedures for Detergents and cosmetics liquid.

Both liquids were heated to 40°c for 24 hours

Both liquids were cooled down to -5°c for 24 hours

The 2 detergents were checked before and after the "Freeze and Thaw" test

This cycle was repeated 3 times. (i.e. 3 times at 40°c and 3 times at -5°c)

The results were as follows:

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No changes in physical properties or physical appearance.

No degradation of any component of the formulations.

Chemical properties were the same with regard to: - Free alkali

- Acid value

- Anti bacterial content

Solvent content

- pH

Detergency (cleansing)

The detergents froze at about -5°c and converted into clear liquid when warmed up (as happens with most normal aqueous liquid detergents).

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Chief Chemist

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