

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES
Antimicrobials Division

February 15, 2002

SUBJECT: PRODUCT CHEMISTRY REVIEW OF:
Spruce-Ups

DP Barcode: 280590
Manufacturing-use [] OR

Reg. No. Or File Symbol: 5813-58
End-use Product [X]

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Product Formulation
Active Ingredient(s)

% by wt.

n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chloride	0.14%
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride	0.14%

BACKGROUND:

The registrant has submitted a completed one-year storage stability and corrosion characteristics study for this disinfecting wipe product to satisfy requirements of Series 830 Guidelines for

registration. The study was submitted in one document MRID 455808-01 and was conducted at the Clorox Technical Center in Pleasanton, California.

FINDINGS:

1. The study was conducted as required by 40 CFR using Good Laboratory Practices.
2. Batch No. 7631-140 and Samples 6783-7 12 to 22 were used for testing. The wood pulp-polyester wipes impregnated with the disinfecting solutions were stored in the same type of white high density polyethylene (HDPE) canister with a colored pigmented flip-top lid that is used for distribution of the commercial product.
3. The wipes were stored throughout the testing at 70° +/- °F. Testing for the amount of the two quaternary ammonium chloride compounds was done by titration, using no less than 7 and no more than 10 grams of solution. The dry weight of the sample after extraction was also analyzed by measuring the weight of the wipe after drying in an oven with a vacuum. Three wipes were analyzed using a sequence of every 8 wipes (#1, 9, 17). If necessary, additional wipes were analyzed following the same sequence.
4. The test substance and the control substance (wipes impregnated with tap water) were examined for corrosion changes by evaluating the following issues: 1) has the product modified the canister resin, 2) has the packaging/closure failed, and 3) has the package become discolored?
5. Wipes were examined at the beginning of the test period (0 months) and at 4 months, 6 ½ months, and 12 months. This is a slight deviation from the standard protocol of 30 days, 6 months and one year, but it was stated that the deviation had no effect on the outcome of the study. The final results showed no deterioration of the product at any time of the study. Storage for one year had no effect on the bottle resin, the package, or the closure.

RECOMMENDATIONS

1. The storage stability and corrosion characteristics study for *Spruce-Ups*, EPA Reg. No. 5813-58, conducted from November 1999 thru November 2000 to satisfy requirements of product chemistry Guidelines 830. 6317 and 830. 6320 is acceptable.