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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES
Antimicrobial Division

01/30/06

SUBJECT:	PRODUCT CHEMISTRY REVIEW OF: **MAQUAT® 86 - M**
DP Barcode:	D323563
Reg. No. or File Symbol	10324-85

TGAI/Manufacturing-use Product [] OR End-use Product [x]

TO:	Velma Noble / Tracy Lantz PM Team 31
FROM:	Juan F. Negrón, Chemist Product Science Branch, CT Team Antimicrobial Division (7510C)
THRU::	Karen P. Hicks, CT Team Leader Product Science Branch Antimicrobial Division (7510C) 1/31/06
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APPLICANT:	Mason Chemical Company

Action: 307
Due out date: 03/02/06

Product Formulation

Active Ingredient(s)	**% by wt.**
n-Alkyl (50%C_{14}, 40% C_{12}, 10% C_{16}) dimethyl benzyl ammonium chloride	0.034
Octyl decyl dimethyl ammonium chloride	0.026
Dioctyl dimethyl ammonium chloride	0.013
Didecyl dimethyl ammonium chloride	0.013

PC 069105 . .

BACKGROUND:

The registrant, Mason Chemical Company, is submitting a study entitled "Evaluation of Vinyl and Crypton for Hydrostatic Resistance" for review. The registrant is adding another non-porous surface, crypton barrier fabric, which can be applied using the MAQUAT® 86 - M product. The non-integrated end-use product, **MAQUAT® 86 - M**, is a disinfectant, cleaner, sanitizer, fungicide, mildewstat, virucide, and deodorizer.

FINDINGS:

1. The Product Chemistry Reviewer received the following documents:
   - Confidential Statement of Formula (CSF), dated 06/20/1988, for the basic formulation.
   - A label, dated 09/16/2005, pin punch.
   - A letter, dated 09/08/2005.
   - A study title, "Evaluation of Vinyl and Crypton for Hydrostatic Resistance," dated 05/2004. MRID #466802-01.

2. The document, MRID #466802-01, indicates that the study does not meet the requirement for the GLP. The registrant indicates that the GLP does not apply to the study according to the 40 CFR 160.135.

3. The 40 CFR 160.135 includes a list of studies that are not required to harmonize with the GLP guideline. However, the study mentioned above is not included in such list.

RECOMMENDATION:

1. The registrant needs to update the GLP statement. The study reveals that the document does harmonize with the GLP guidelines.

CONCLUSION:

The study title, "Evaluation of Vinyl and Crypton for Hydrostatic Resistance," dated 05/2004. MRID #466802-01 is partially acceptable. The study reveals that the crypton fabric shows similar characteristics to the twelve non-porous surfaces, which exhibits fluid barrier properties.