003052

DATE: September 6, 1978

SUBJECT: Aquat EPA Registration#11133-R

Caswell#16

WHO 9/1/13 FROM: Hilliam Dykstra, Ph.D Toxicology Branch/HED

To: Joseph Tavano Product Manager #31

> Registrant: Peroxide & Specialties Co. . Div. of Jones-Hamilton Co. . ilewark, Ca. 94560

Action Type: New Registration

Recommendations:

- There is a discrepancy between the percent active ingredient listed on the label and the percent active ingredient listed in the confidential statement of formulation of the product.
- 2. No additional toxicology studies are required for registration of this product.
- 3. The label signal word, precautionary statements', statement of practical treatement and note to physician are correct for the product and adequate to protect the user of the product.

*No RPAR criteria have been exceeded in these studies.

Product !lame: Aquat

Ingredient	Percent leight
103 (C - 103)	•
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) Dimethyl Benzyl Ammonium chloride	10
Tanaka	90
Inerts	100

Uses: Disinfection of Barber Tools

Barber tools (such as combs, brushes, razors and scissors) can be disinfected by immersing in a 1/2 ounce/gal solution of Aquat.

EPA FORM 1320-6 (REV. 3-76)

- Method of support (2.b) from Lonza Barquat MB-50 + MB-80.
- Toxic Studies on Barquat HB-80 (6/30/75; Bio-Tox Labs., Inc.) Memo of 5/24/76 from W. Greear.
- 1. Eye Irritation: Core Minimum Data at 72 hours.

TOX Category I: DAMGER (Maximum Score)

Core Minimum Data 2. Acute Oral LD₅₀: $LD_{50} = .43 \text{ ml/kg (both sexes in rats)}$

TOX Category II: MARHING

3. Primary Skin Irritation: Core Minimum Data P.I. = 6.29

TOX Category II: MARMING

- 4. 20 Day Subacute Dermal Toxicity Study
 - 0.25% Active/kg-mild erythema
 - 0.1% Active/kg-moderate erythema, slight edema, slight desquamation, weight loss
 - 0.2% Active/kg-moderate erythema, slight ede a, moderate erythema, weight loss: Supplementary Data
- 5. Dermal LD₅₀ of Barquat NB-80 dated 10/14/77 (Leberco Laboratories.

Memo of 12/12/77, W. Greear. LD₅₀ > 5 gm/kg (female rabbits) Supplementary Data: TOX Category III: CAUTION

Teratologic Evaluation of Four Quaternacy Compounds (FDR Labs. 2/11/77, Lab.#5154)

Memo of 8/8/77 from R. Gessert, D.V.M.

Daily oral administration of Barquat MB-50, Barquat MX-50, Conclusion: Barquat 4250 or Barquat 4250-2 to rats it doses of 10, 25, or 50 mg/kg during days 6-15 of pregnancy fid not produce any indication of significant fetotoxicity or teratogenicity in these studies.

Classification: Core Minimum Data

Conclusion on Toxicology Data:

The eye irritation study, although evaluated up to 72 hours only (rather than also at 7 days), demonstrated a maximum score of 110/110 for each of 6 rabbits. This study on MB-80 (Technical) canbe suitably extrapolated to the formulated product and can be used to establish the toxicity category of the formulated product (Fox I, PANCER). Although the acute dermal LD₅₀ + 20 day subacute dermal toxicity study are considered supplementary data, it can be concluded that routine dermal exposure to the formulated product, in accordance with label precautions, and the use dilution of the formulated product will not produce a risk of systemic toxicity. The teratological study shows that female human exposure will not result in fetotoxic or teratogenic risks. Other data on file indicate that the technical material is not a skin sensitizer. Therefore, it can be concluded that no additional toxicology studies are required to evaluated the human hazards from exposure to the product from the proposed use patterns.

TOX/HED:th:Reto Engler:8/30/78

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