DATE:

April 17, 1978

SUBJECT:

EPA Reg.#6125-GN Caswell#331A (Didecyl dimethyl Ouat. No. 7 Ammonium Chloride)

FROM:

1.00 4/17/78 William Dykstra, Ph.D Toxicology Branch

TO:

James Banks Product Manager #33

Registrant: Bixon Chemical Company 50-19-97th Place

Corona, N.Y. 11368

Action Type: Resubmission

Recommendations:

- The toxicology data submitted in support of the registration are not adequate to evaluate the human hazards associated with exposure from the use patterns of this particular formulation. The following toxicology studies on this particular formulation are required to assess the label statements and human hazards of the product.
- Eye irritation rabbits
- Primary skin irritation rabbits b.
- Dermal LD50 rabbits
- Skin sensitization quinea pigs
- Subacute Dermal (21 day) Toxicity Study Rabbits: Dose levels tested should include use dilution and 5% use dilution (exposure during mixina)
- The Acute $0ral\ LD_{50}$ of the formulated product can be estimated from comparison with Lonza Disinfectant Cleaner to be in Toxicity Category III: CAUTION
- A teratogenic evaluation of the active ingredient, tetrasodium ethylenediamine tetraacetate is required. Ethylenediamine tetraacetate (EDTA), as the diethanolamine salt, has been ac cepted as an RPAR candidate on the basis of teratogenicity (and further testing is needed).
- Label assessment will be made following evaluation of the Toxicology profile of the formulation and active ingredients.

Formulation:

| Chemical Active | Percent Weight |
|--|----------------|
| | 8.5 |
| Tetrasodium ethylenediamine tetraacetate | 4.0 |

Uses: Disinfestant - Cleaner for use on walls, floors and other hard surfaces such as tables, chairs and bed frames in hospitals, schools and industry.

Use dilution: Add 2 ounces per gallon of water (1:64)

For heavily soiled areas, a preliminary cleaning Precleaning Instructions: may be required.

Method Application: With a cloth or mop

Contact time for disinfection: Not specified

Application Frequency: Not specified but assumed to be used daily.

Review:

Toxicology Data Submitted in support of the registration.

- 1. Method of Support (2.b.) for products based on Lonza Disinfectant Cleaner 30-3.
- 20 day Subacute Dermal toxicity tests, #D-6259 dated 4-13-71. a.
- Report on eye irritation testing, #D-5093 dated 11-27-70.
- c.
- Dermal LD₅₀ dated 3-8-77, submitted 3-28-77. Report on Primary Skin Irritation, #D-5094 dated 11-27-70. d.
- Report on Oral LD_{50} tests, #D5092 dated 11-25-70.
- The following are found in EPA Reg. File 2.
- Teratologic Evaluation of Three (3) Quaternacy Compounds, Lab#5155 a. submitted March 28, 1977.
- Intravenous LDsn Toxicology Summary of

Oral LD50 Dermal LD50 Primary Skin Irritation Eve Irritation Subacute Dermal

Acute Dermal Toxicity, #C-9919 dated 7/23/68.

20 day Subacute Dermal testing, #C-9920 dated 8/6/68 and 8/28/68. d.

eye irritation testing, #E899 dated 2/15/72.

- Tetrasodium ethylenediamine tetraacetate (40% active) Submitted 9/30/76. 3.
- Toxicity Data a.

Acute Oral LD50 Acute Dermal LD50 Primary Skin Irritation Eye Irritation

- 4. Sodium Carbonate Submitted 9/30/76
- a. Toxicity Data

Acute Oral LD₅₀ Primary Skin Irritation Eye Irritation

- 5. Sodium Metasilicate, Anhydrous Submitted 9/30/76
- a. Toxicity Data

Acute Oral LD₅₀ Primary Skin Irritation

Typists: TH

RD initial G.E.W. 4/17/78

EforGEW. 4/18/78