#586

3/21/75
Mr. Cobey

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY CASWELL FIL

SUBJECT: EPA No. 239-1721-AA DATE: MAR 21 1975

FROM: Toxicology Branch

TO: Product Manager

Registration No: 239-1721-AA

Product Name: Dibrom-14 Concentrate

Registrant: Chevron Chem. Co.

Action Requested: Reregistration

Recommendation: No adverse comments

Related Petitions: 330, 7F0532, 8F0975, 1F1078, 1E1100, 1F1111

Established Tolerances: 40 CFR 180.215 (Dibrom)

10 parts per million in or on forage grasses and legumes, as defined in §180.34 (f).

3 parts per million in or on celery, collards, grapefruit, kale, lemons, oranges, spinach, Swiss chard, tangerines, turnip tops.

1 part per million in or on broccoli, brussels sprouts, cabbage, cauliflower, lettuce, strawberries.

0.5 part per million in or on beans (dry and succulent), cottonseed, cucumbers, eggplants, grapes, hops, melons, mushrooms, peaches, peas (succulent), peppers, pumpkins, rice, safflower seed, sugar beets (roots and tops), summer squash, tomatoes, walnuts, and winter squash.

0.5 part per million in or on all raw agricultural commodities (except those otherwise listed in this section from use of the insecticide for area pest (mosquito and fly) control.

(1)

0.05 part per million (negligible residue) in eggs; meat, fat, and meat by-products of cattle, goats, hogs, horses, poultry, and sheep; and milk.

Formulation: Dibrom 14 Concentrate

Active Ingredient
85% Naled

Inert Ingredient

[redacted] Impurities in Technical Naled.

Use: Insecticide

Application Method: Spray

Background Information

Acute Toxicity

Rat Oral LD_{50}- Tech-	420 mg/kg
Rat Oral LD_{50}-Dibrom LVC-10-	1422 mg/kg
Rabbit Dermal LD_{50}-Tech-	1100 mg/kg
Rabbit Dermal LD_{50}-Dibrom 14	1005 mg/kg
Rabbit Dermal LD_{50}-Dibrom LVC-10-	394 mg/kg
Rabbit Inhalation LC_{50}-Dibrom LVC-10-	15 to 20 mg/L
Rabbit Inhalation LC_{16}-Dibrom 14-	0.17 mg/L
Rabbit Inhalation LC_{16}-10% Dibrom 14	3.3 mg/L
Rabbit Dermal Irritation-Dibrom LVC-10-	produced maximum irritation
Rabbit Eye Irritation-Dibrom LVC-10-	produced slight to severe irritation, corneal opacity in 1/6 rabbits at day 7.

Subacute Toxicity

Dog ChE NEL	10 ppm
Rat ChE NEL	20 ppm
5 Week Rat Inhalation-Tech	NEL <50 ppm
5 Week Guinea Pig Inhalation-Tech	NEL <50 ppm

INERT INGREDIENT INFORMATION IS NOT INCLUDED

Chronic Toxicity

2 Year Rat Feeding	NEL 100 ppm
2 Year Dog Feeding	NEL 300 ppm
3 Generation Rat Reproduction	NEL 25 ppm (highest fed)

Special Toxicity

Human Patch-Tech- primary skin irritant

Present Action

The following toxicity data was submitted with the requested for reregistration:

Acute Rabbit Dermal Irritation- Nov. 19, 1974

The test material used was identified as Dibrom 14 Concentrate (cc 5511).

One-half milliliter of the undiluted test material was applied to the intact and abraded test sites on each of six rabbits. Length of contact was 24 hours. The test site was scored at 24, 48 and 72 hours and at 7 days using the modified Draize method.

Results: A primary irritation score of 5.8 was reported. The skin was escharotic by 72 hours. Slight to moderate edema was also evident throughout the study.

These findings support the requirement for use of the signal word "danger" on the product label.

Acute Rabbit Eye Irritation- Nov. 19, 1094

The test material used was identified as Dibrom 14 Concentrate (cc 5511).

One-tenth milliliter was instilled into one eye of each of 12 rabbits. Six treated eyes were washed after a 40 second exposure. The remaining six treated eyes were not washed. The test site was scored at 1,2, 3,7, 10 and 14 days using a modified Draize method.

Results-Severe irritation and complete corneal opacity was observed in the majority of the unwashed eyes on days 7, 10, and 14..

The majority of washed eyes showed moderate to severe irritation and dense to complete corneal opacity on days 7, 10 and 14.

These data reveal the test material to be extremely harmful to the eye. Category I labeling is required.

Robert D. Coberly, Biologist
Toxicology Branch
Registration Division

cc: Branch Reading File
RCoberly:ir: 3/19/75
Initial G.E. Whitmore G.E.W.