24-D/TOX

June 15, 1981 DATE:

Weed-B-Gon Intermediate SUBJECT:

EPA File Symbol: 239-EUIL

FROM:

Sherell A. Sterling 16 8 FHB/TSs

Richard Mountfort TO: Product Manager (23)

Applicant: Chevron Chemical Company

Ortho Agricultural Chemicals Division

940 Hensley Street Richmond, CA 94804

Active Ingredients:

Dimethylamine salt of MCPP ..... 34.0% Inert Ingredients ....

Background: Acute Oral, Acute Dermal, Eye and Skin Irritation studies were submitted in support of the conditional registration for this product. These studies were conducted at the Environmental Health Toxicology Labs of Standard Oil of California. The "cite-all" method of support was chosen.

### Recommendations:

- 1. The Acute Oral study is considered adequate and acceptable for conditional registration purposes. For future submissions, please note that results of all necropsies must be included in the report.
- 2. The Acute Dermal study is considered adequate and acceptable for conditional registration purposes. Response data (including erythema and edema) must be reported in tabular form.
- An Acute Inhalation study was not submitted with this application. This study is necessary since the substance is a liquid. The applicant has agreed to submit this study when completed (late 1981).
- 4. The Eye Irritation study is considered adequate and acceptable for conditional registration purposes.
- The Skin Irritation study is considered adequate and acceptable for conditional registration purposes.

### Labeling Recommendations:

1. Based on the Eye Irritation study, the appropriate signal word is DANGER.

2. The "Hazards to Humans and Domestic Animals" statement must be revised as follows (or similarly):

DANGER, Corrosive. Causes irreversible eye damage and skin irritation. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors.

3. The "Statement of Practical Treatment" must be revised as follows:

If in eyes: Flush with plenty of water. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Emergency information - call (415) 233-3737.

4. The "Environmental Hazards" must be revised as follows:

"This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes."

5. The "Storage and Disposal" statement must be revised according to the enclosed information sheets.

### Review:

1. The Acute Oral Toxicity of Weed-B-Gon Intermediate; Report #SOCAL 1779; May 1, 1981; Acc. No. 245070.

Procedure: Groups of Sprague-Dawley rats, each with either 5M (232-305g) or 5F(202-246g), were given single doses of "Weed-B-Gon Intermediate" intragastrically. Males received dosages of 1.0-5.0 g/kg; females were dosed at 0.39-2.0 g/kg. Animals were observed for 14 days. All animals were subjected to necropsies.

Results: The LD50 for males was 1.7 with a 95% confidence range of 1.2-2.5 g/kg. The female LD50 was 0.89 g/kg with a 95% confidence range of 0.64-1.2 g/kg. Symptoms included: weakness, ataxia, collapse,

moribund, salivation, decreased motor activity, reduced food intake; diarrhea, hematuria. Necropsy revealed: reddened GI tract, red nasal discharge, dark brown glands and hollow kidneys (per summary, latter 2 not related to study).

Study Classification: Core Minimum Data. Generally, equal numbers of males and females must be tested at each dosage level. Only summary of necropsy included; individual reports should be included.

### Toxicity Category: III-CAUTION

2. The Acute Dermal Toxicity of Weed-B-Gon Intermediate; Report #SOCAL 1778; April 15, 1981; Acc. No. 245070.

Procedure: A group of 5M (2.47-2.76 kg), 5F (2.01-2.85 kg) New Zealand white rabbits were treated with 5 g/kg of "Weed-B-Gon Intermediate" at abraded skin sites. Subsequently, groups of F received single doses from 1.0-3.3 g/kg. Exposure was for 24 hours under occlusive wrap. Animals were observed for 14 days post-dosing. All animals were subjected to necropsies.

Results: No mortalities in M at 5.0 g/kg. LD50 for F was 3.1 g/kg with a 95% confidence range of 1.1-8.5 g/kg. Symptoms (reported for F only) included: weak, loose stools, collapse, decreased motor activity, reduced food consumption, ataxic. Most treated animals had moderate to severe erythema and edema at 24 hours. Necropsy revealed: dry, thickened, or necrotic skin in many treated animals; small white cysts in livers of 1 treated and 1 control animal.

Study Classification: Core Minimum Data. Observations were reported in summary; individual reports must be included.

### Toxicity Category: III-CAUTION

3. The Eye Irritation Potential of Weed-B-Gon Intermediate; Report #SOCAL 1777; April 20, 1981; Acc. No. 245070.

Procedure: 9 New Zealand white rabbits each received 0.1 ml of "Weed-B-Gon Intermediate" in one eye. Three eyes were subsequently rinsed for one minute with 250 ml of distilled water, 30 seconds post-treatment. Draize scoring at 1, 2, 3, 7, 10, 14 and 21 days.

Results: The unwashed eyes at 24 hours exhibited corneal opacity in 3/6 = 60, 3/6 = 80; iris irritation in 4/6 = 5; redness in 1/6 = 2, 5/6 = 3; chemosis in 1/6 = 2, 2/6 = 3, 3/6 = 4; discharge in 6/6 = 3; corneal sloughing noted in 2/6. By day 21, corneal opacity noted in 1/6 = 5, 1/6

= 30, 1/6 = 40, 3/6 = 80, iris irritation in 1/6 = 5 with 3/6 unable to score due to opacity; redness in 2/6 = 1, 2/6 = 2; chemosis in 1/6 = 1, 3/6 = 2; discharge in 1/6 = 1 and 3/6 = 2.

The washed eyes at 24 hours exhibited corneal opacity in 2/3 = 60, 1/3 = 80 and 2/3 with corneal sloughing; iris irritation in 2/3 = 5; redness in 1/3 = 2, 2/3 = 3; chemosis in 2/3 = 3, 1/3 = 4; discharge in 3/3 = 2. At day 21, corneal opacity in 2/3 = 80; iris irritation couldn't be scored in 2/3; redness in 2/3 = 1; chemosis in 2/3 = 1; discharge in 1/3 = 1, 1/3 = 2.

Necropsy of 3 animals (2 unrinsed, 1 rinsed) showed disruption and erosion of corneal epithelium; corneal stroma edematous; neovascularization with inflamed infiltrate; anterior synechia.

Study Classification: Core Guideline Data.

Toxicity Category: I-DANGER

4. The Skin Irritation Potential of Weed-B-Gon Intermediate; Report # SOCAL 1776; February 20, 1981; Acc. No. 245070.

Procedure: 6 New Zealand white rabbits with 2 intact and 2 abraded sites per animal received 0.5 ml of "Weed-B-Gon Intermediate" at each site.

Draize scoring at 24, 48, 72 hours; 7 days.

Results: At 24 hours, intact sites exhibited erythema at 7/12 = 3, 5/12 = 4; edema at 3/12 = 3, 9/12 = 4. Abraded sites at 24 hours showed erythema in 5/12 = 3, 7/12 = 4; edema at 2/12 = 3, 10/12 = 4. At 72 hours, intact sites showed erythema in 1/12 = 1, 3/12 = 2, 8/12 = 3; edema at 4/12 = 1, 8/12 = 2. The Primary Irritation Index was 5.8.

Study Classification: Core Guideline Data.

Toxicity Category: II-WARNING

7/12=2, 1/12=3. Abraded sites by 72 hours exhibited enithema in 1/12=1, 3/12=2, 5/12=3; edema cut 4/12=1,

### **1AZARDS TO HUMANS & DOMESTIC ANIMALS** PRECAUTIONARY STATEMENTS

neathing upors. In case of eye contact, immediately flush eyes with fresh water is minutes and get medical attention (I swallowed promptly drink a large quantity water and induce vomiting. Get medical attention immediately in case of shin contact, if water and induce vomiting. orrosive to eyes. Causes eye damage. Do not get in eyes. Wen goggles or face shield when anding concentiste. Haimful it swallowed. Avoid contact with sun or clothing. Avoid wash sion with planty of coap and water Get medical attention if instation persists year to Physicians: Emergency Information - call (415) 273 3737

fins product is some to fish Keep out otlaber streams, or pands. Do not contaminate water by cleaning of equipment or disposal of waters **ENVIRONMENTAL HAZARDS** 

READ ENTIRE LABE! USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. It is a violation of Federal law to use this product in a manner inconsistent with its labeling

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment

Open dumping is prohibited.

### STORAGE

NOT handle or store near plants, seeds, fertilizer, insecticides or DO NOT use in equipment or store in containers in which other agricultural chemicals will be handled.

### PESTICIDE DISPOSAL

Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies

### CONTAINER DISPOSAL

Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved Inndfill, or bury in a safe place

Consult federal, state or local disposal authorities for approved alternative procedures.

# WEED-B-GON®

# ntermediat

## FOR MANUFACTURING USE ONLY

Protection Agency.

34.08 Inert Ingredients..... 34.2% acetic, acid..... chlorophenoxy) propionic acid...... \*\*Dimethylamine salt of 2,4-Dichlorophenoxy \*Dimethylamine salt of 2-(2-Methyl-4-Active Ingredients:

26.4% \*\*2,4-dichlorophenoxy acetic acid or 2.79 lbs./gal. of 2-(2-methyl-4-chlorophenoxy) propionic acid and 2.62 lbs./gal. of \*\*2,4-dichloro-\*Equivalent to 28.1% 2-(2-methyl-4-chlorophenoxy)propionic acid and \*\*Isomer specific by A.O.A.C. Method No. 6.DOL-5 phenoxy acetic acid per U.S. gallon at 68°F.

KEEP OUT OF REACH OF CHILDREN

### DANGER

See Side Panels for Additional Precautionary Statements

NET CONTENTS.

detailed information. Products formulated with WEED-B-GON Intermidiate may require NOT FOR DISTRIBUTION FOR SALE OR USE IN THIS FORM. FOR ORTHO MANUFACTURING USE ONLY. Refer to specific Ortho formulas for registration with the Environmental

San Francisco CA 94119 Richmond CA 94804 Ortho Agricultural Chemicals Division Form 9829-A Symbol 53393 NEWL-1 Made in U.S.A. Chevron Chemical Company Manufactured for Product 4851