000492

000492

MEMORANDUM

#508

DATE: March 12, 1981

SUBJECT: EPA Registration No. 239-2390 ORTHO HORNET & WASP JET SPRAY
Caswell #508

FROM: Cheryl A. Peterson
IRB/TSS

TO: Mr. Jay Ellenburger
Product Manager (12)

Registrant: Chevron Chemical Company
Ortho Consumer Products Division
940 Hensley Street
Richmond, CA 94804

Active Ingredients:

Baygon (2-(1-Methylethoxy)phenyl methylcarbamate)	0.50%
Inert Ingredients	84.43%

Background

This product is registered for outdoor, [illegible] use as a jet spray against hornets, wasps, ants & fleas etc. The company has submitted an application for amended pesticide product registration to submit draft labels showing revised precautionary statements. The "cite-all" method of support is being used, and acute oral, acute dermal, primary eye irritation, primary skin irritation and acute inhalation studies have been submitted in support of the amendment. The label change involves upgrading the signal word from CAUTION to WARNING.

Recommendations:

1. The acute oral, acute dermal, primary ocular irritation and primary dermal irritation studies are acceptable.

2. The acute inhalation LC_{50} study has been classified Core Supplementary Data. No actual chamber concentration measurements or particle size determinations were reported.

3. IRB/TSS would have no objection on the basis of acute toxicological considerations to the adaptation of the proposed amendment with the labeling revisions indicated below.

1 16

000492

Labeling:

1. The appropriate signal word is WARNING, as indicated by the registrant.

2. The following statement is suggested in case of eye contact:

> For eye contact: immediately wash eyes with plenty of fresh water. See a doctor if...

3. The following statement should be included under the precautions:

> Avoid breathing vapors.

4. The ENVIRONMENTAL HAZARDS statements should be similar to the following:

> Keep Out of Lakes, Streams and Ponds. Do not contaminate water supplies by cleaning of equipment or disposal of wastes.

Review:

The following studies were conducted by Chevron Environmental Health Center, P.O. Box 1272, Castro and Midway streets, Richmond, CA 94802 for Chevron Chemical Company on material identified as Hornet & Wasp Jet Killer (cc-9628). They were received by EPA on 2-2-81, and are in Acc. No. 244218.

1. Acute Oral LD_{50}-Rat Dated: 1-8-80. Socal 1546/37:121.

Procedure: 5M Sprague-Dawley, albino rats each received by an unspecified method of oral administration 5.0 g/kg undiluted test material. 4 groups of 5F Sprague-Dawley, albino rats each received by an unspecified method of oral administration 2.2 g/kg, 3.3 g/kg, 5.0 g/kg and 7.5 g/kg test material. 5M & 5F also served as untreated controls. There was a 14-day observation period with survivor sacrifice and necropsy.

Result: LD_{50} for M was greater than 5.0 g/kg. LD_{50} for F was 4.2 (95% Conf. Lim. = 2.2-7.9). No mortalities in males. 4/5F died Day 1 at 5.0 g/kg. 5/5F died Day 1 at 7.5 g/kg. Clinical signs included tremors, salivation & depression. Survivors, on the average, gained weight during the observation period. Necropsy showed fluid in intestines in F that died during the observation period, no other changes were reported.

Study Classification: Core Minimum Data (Individual body weights should be reported 3-4x weekly; individual necropsy results should be presented).

Product Classification: Tox Cat. III.

The following study was conducted by Elars Bioresearch Laboratories, Inc., 225 Commerce Drive, Fort Collins, Colorado 80524 for Chevron Chemical Co. on material identified as Hornet & Wasp Jet Killer.

2. Acute Dermal LD_{50} - Rabbit. Dated: 6-2-80, Project # 1534.1

2

Procedure: 5F,5M NZ albino rabbits each received 24-hr occluded exposure on abraded skin sites to 5.0 g/kg test material. 6F & 4M serves as a control group. There was a 14-day observation period with survivor sacrifice and necropsy.

Results: No mortalities. LD_{50} is greater than 5.0 g/kg test material. All animals gained weight during the observation period. Clinical signs included minor edema and minor erythema at 24 hrs. Necropsy showed the presence of intestinal parasites but not compound related lesions.

Study Classification:

The following studies were conducted by the Chevron Environmental Health Center.

3. Primary Eye Irritation - Rabbit. Dated: March 6, 1980. Socal 1549/36:106.

Procedure: 9M NZ white rabbits each received 100 mg. test material sprayed in a thin stream from a pressurized can at a distance of 6 inches into one eye. 3/9 eyes were washed for 1 min. with distilled water beginning 30 sec. after treatment. Observations were made at 1 hr., 1,2,3, & 7 days.

Results: 2/6 unwashed eyes showed corneal opacity at 1 hr. with clearing by 24 hrs. 6/6 unwashed eyes showed minor conjunctivitis with clearing in 2/6 by Day 2, 4/6 by Day 3 & 6/6 by Day 7. No washed eyes showed corneal opacity. 3/3 washed eyes showed minor conjunctivitis with clearing in 1/3 by Day 2, 2/3 by Day 3 & 3/3 by Day 7.

Study Classification: Core Minimum Data

Product Classification: Tox. Cat. II.

4. Primary Dermal Irritation - Rabbit. Dated: 2/12/80. Socal 1548/39;108.

Procedure: 6 NZ M albino rabbits each received 24-hr., occluded exposure to 0.5 gm test material sprayed in a thin stream from a pressurized can on each of 2 intact and 2 abraded sites. Observations were made at 24, 48, 72 hrs., & 7 days.

Results: Primary Dermal Irritation = 5.5. All rabbits showed moderate edema and erythyma at 72 hrs. which was still apparent at 7 days.

Study Classification: Core Guideline Data

Product Classification: Tox. Cat. II.

5. Acute Inhalation LC_{50}-Rat. Dated: 6-12-80. Socal 1550/36:136

Procedure: 5M, 5F Sprague-Dawley albino rats each received 4 hr. exposure to test material into a static 380-l chamber. The amounts sprayed each hour were 23.8, 20.8, 22.9 & 20.8 g test material. Spraying 20.8g test material into the static chamber was equivalent to spraying the entire contents of 2 14-oz.

3

cans into a sealed 8' x 8' x 8' room. There was a 14-day observation period with survivor-sacrifice and necropsy.

Results: No mortalities. Animals, on the average, gained weight during the observation period. No signs of toxicity were observed. Necrospy showed no changes attributable to the test material.

Study Classification: Core Supplementary Data (No actual chamber concentration measurements or particle size determinations were reported).

Propoxur Toxicology Reviews

Page _____ is not included in this copy.

Pages 5 through 6 are not included in this copy.

The material not included contains the following type of information:

___ Identity of product inert ingredients

___ Identity of product impurities

___ Description of the product manufacturing process

___ Description of product quality control procedures

___ Identity of the source of product ingredients

___ Sales or other commercial/financial information

X A draft product label

___ The product confidential statement of formula

___ Information about a pending registration action

___ The document is a duplicate of page(s) _____