UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: July 10, 1978

SUBJECT: E.P.A. Reg. #239-2032 ORTHO Chinch Bug and Sod Webworm Control
Caswell #845 A (ASPON)

FROM: William Dykstra, Ph.D. WD 7/14/78
Toxicology Branch

TO: Franklin Gee (16)

Registrant: Chevron Chemical Company - ORTHO Div.
940 Hensley Street
Richmond, California 94804

Product Manager: Franklin Gee (16)

Action Type: To submit additional toxicology data and revised precautionary statements.

Recommendations:

1. The toxicology studies are acceptable as core minimum data.

2. The toxicology studies support the revised precautionary statements.

* No RPAR criteria were exceeded in these studies.

Product Name: ORTHO Chinch Bug and Sod Webworm Control

Ingredient	Percent Weight
O,O,O,O-tetrapropyldithio-pyrophosphate	3.2
Inerts	96.8
	100.0

Uses: Against Lawn Chinch Bugs and Sod Webworms; Apply the contents of this bag evenly to 5000 square ft. (50'x 100') of lawn area with a lawn spreader.

Review:

1. The Acute Oral Toxicity of Ortho Chinch Bug and Sod Webworm Control (Chevron, SOCAL 1179 131: 116, March 1, 1978)

Test material: Ortho Chinch Bug and Sod Webworm Control

Six groups of Sprague-Dawley derived rats (5 M & 5 F), 200-250 gm BW, received by gastric intubation doses of 0, 1.5, 2.2, 3.3,

5.0 and 6.0 gm/kg of test material mixed with 1% carboxymethyl cellulose. Observation for 14 days.

Results: None of the male rats died, all of the females given 5 or 6 gm/kg died, one female given 3.3g/kg died and one given 2.2 gm/kg died.

$LD_{50} > 6.0$ gm/kg (males)

$LD_{50} = 3.4$ gm/kg (females)

Toxic Signs: tremors, salivation, convulsions, dyspnea, red discharge from eyes, diarrhea, coma

Body Weight: male rats gained weight above 3.3 gm/kg

Necropsy: one female showed consolidation of the lung

Classification: core minimum DATA
Tox Category III: CAUTION

2. Acute Dermal Screening, Rabbits (Western Research Center, Stauffer, WRC 6/3/70 and WRC 6/18/70) Two reports.

Test material: Aspon 5GA; 131617/1;1355/46 5% Aspon. Product is 3.2% Aspon each study employed 4 rabbits (sex not specified) which weighed 1.6-1.7 kg. Each rabbit received dermally 4640 mg/kg of test material. The report does not specify if abraded skin or impervious cuff were employed. Observation for 14 days.

Results: No deaths $LD_{50} > 464$ mg/kg

Toxic Signs: No apparent signs of toxicity

Body Weight: Normal weight change

Necropsy: Not performed

Classification: Core minimum DATA
Tox Category III: CAUTION

3. The skin Irritation Potential of ORTHO Chinch Bug and Sod Webworm Control (Chevron, Socal 1180130:132 March 2, 1978)

Test material: ORTHO Chinch Bug and Sod Webworm Control, Sx-9037 0.5 gm of test material was applied to the intact and abraded skin sites on the fur clipped trunks of six albino rabbits for 24 hours under an impervious cuff. Observation at 24 and 72 hours after exposure.

Results: P.I. = 0.5 slight erythema and edema were observed at 24 hours. All animals had normal skin at 72 hours.

Classification: core minimum DATA
Tox Category IV: CAUTION

4. The Acute Inhalation Toxicity of ORTHO Chinch Bug and Sod Webworm Control (Chevron, Socal 1181/28:142 March 2, 1978)

Test material: ORTHO Chinch Bug and Sod Webworm Control

Two groups of 5 M & 5 F adult Sprague-Dawley rats, 250-300 gm BW, were exposed to heated vapor of test material which was generated by routing air at 5 lpm and 10 psi through a 4-l separatory funnel containing approximately 168 gm of test material for one (1) hour in 21 liter chamber. Observation for 14 days. One group was the control.

Results: No deaths or signs of toxicity were observed during the 14 day observation period. During the exposure the funnel-test material combination lost 2 gm. It is estimated that the nominal concentration is 2 gm/21L = 95 mg/L.

$LD_{50} > 95$ mg/L

Necropsy: Not remarkable

Classification: core minimum DATA
Tox Category IV: CAUTION

5. The eye irritation potential of CC 7187 (Chevron, Socal 937/27:75, July 19, 1976)

Test material: CC 7187 (SX-814)
Formulation: Aspon 34.0%
[redacted]
100.0

This composition of test material is comparable to the product with respect to eye irritants.

0.1 ml (average weight 11.8 mg) of test material was instilled into the conjunctival sac of one eye of each of six rabbits. The untreated eye served as a control. The eyes were examined and graded for ocular reaction at 1, 24, 48, and 72 hours using a modification of the scoring system of Draize.

Results: No corneal opacity or iritis was observed during the 72 hour

Incomplete which may reveal chart agreements is not included

observation period, slight discharge and conjunctival redness was present in 6/6 eyes at one(1) hour. All eyes appeared normal at 24 hours.

Classification: Core minimum DATA
Tox Category III: CAUTION

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