

DATE: October 25, 1979

SUBJECT: EPA File Symbol: 239-EUTU
Orthocide Plus; Caswell #159, 849A

FROM: S. A. Sterling
FHB/TSS

TO: Henry Jacoby
Product Manager (21)

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Applicant: Chevron Chemical Co.
Ortho Agricultural Chemical Div.
Richmond, CA 94804

Active Ingredients:

Captan	9.5%
Related Derivatives	0.5%
Thiabendazole	0.5%
Inert Ingredients	89.5%

Background:

These data have been submitted in support of the conditional registration under the "alternate" method of support. Included in this submission are Acute Oral, Acute Dermal, Acute Inhalation, Eye and Skin Irritation studies under accession number 241043. The studies were all conducted at the Chevron Safety and Health Division Laboratories in San Francisco, CA. All tests were conducted on the formulated product (CC-6959).

Recommendations:

1. On the basis of eye effects, the signal word is "DANGER" as proposed by the applicant.
2. The Acute Oral, Acute Dermal, Acute Inhalation, Eye and Skin Irritation studies are adequate and acceptable for the conditional registration of this product.
3. FHB/TSS would have no objection on the basis of adverse effects to man and domestic animals to the conditional registration of this product.

Review:

1. S-1224 The Acute Oral Toxicity of Orthocida-Mertect 10-0.5 Seed Protectant (CC-6959); SOCAL 1241/51:139; August 22, 1978.

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Procedure: 5M (213-241 g), 5F (230-242 g) Sprague-Dawley rats received oral dosages of 5 g/kg of test substance suspended in 1% carboxymethyl cellulose. Animals were observed for 14 days. At termination of study, survivors were sacrificed and examined for gross pathological alterations.

Results: No mortalities. Pink-colored diarrhea observed in several animals after dosing. No gross pathological changes. Mean body weights increased from day 0 to day 14.

Study Classification: Core Guideline Data

Toxicity Category: IV

2. S-1225 The Acute Dermal Toxicity of Orthocid-Mertect 10-0.5 Seed Protectant (CC-6959); SOCAL 1242/29:34; August 22, 1978.

Procedure: 6M (2.51-2.92 kg) New Zealand white rabbits, three with intact and three with abraded sites, were exposed to 5.0 g/kg of test substance mixed with distilled water. Animals were observed for 14 days. At termination of study, survivors were sacrificed and all animals were subjected to gross pathological examination.

Results: No mortalities or signs of toxicity. Pink or yellow stain on fur. At necropsy, 1/6 had pitted kidneys; no other pathological alterations were observed.

Study Classification: Core Minimum Data. Only M subjects were tested.

Toxicity Category: III - CAUTION

3. S-1228 The Acute Inhalation Toxicity of Orthocid-Mertect 10-0.5 Seed Protectant (CC-6959); SOCAL 1245/36:32; August 22, 1978.

Procedure: Two groups of 5M, 5F Sprague-Dawley rats were exposed for one hour to either the vapor or the dust of the test substance. The vapor concentration was 0.6 g/300 l of air; the dust concentration was 2.0 mg/l. All animals were observed for 14 days. At termination of study, survivors were sacrificed; all animals were subjected to gross pathological examination.

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Results: No deaths. In group exposed to vapor, 18 observed with corneal opacity on day 14; 17 dehydrated and lost weight days 7-14 due to malfunctioning water valve. In group exposed to dust, 4 subjects appeared depressed for a day. Inhalation LC_{50} is greater than 2 mg/l.

Study Classification: Core Minimum Data.

Toxicity Category: III - CAUTION. These data show that product is no worse than tox. cat. III.

4. S-1226 The Eye Irritation Potential of Orthocide-Mertect 10-0.5 Seed Protectant (CC-6959); SOCAL 1243/33:23; August 22, 1978.

Procedures: 0.1 ml of test material was applied into one eye of each of six rabbits, all eyes unrinsed. Scoring at 1 hour, 1, 2, 3, 7, 10 and 14 days.

Results: Slight to complete corneal opacity observed in 2/6 on day 1, 6/6 on day 2, 5/6 on day 3, 2/6 on day 7, 2/6 on day 14. Slight iritis from 1 hour to day 7. Moderate to severe conjunctival irritation through day 3, 2/6 on day 7. Pannus observed 1/6 on day 7, 2/6 on day 14.

Study Classification: Core Minimum Data. A group (minimum = 3 animals) which was subjected to eyewash post-exposure should have been studied.

Toxicity Category: I - DANGER. Pannus observed on day 7, 2/5 animals had corneal opacity on day 14.

5. S-1227 The Skin Irritation Potential of Orthocide-Mertect 10-0.5 Seed Protectant (CC-6959); SOCAL 1244/33:29; August 22, 1978.

Procedure: 0.5 g of the test material moistened with distilled water was applied to two sites (one intact, one abraded) on each of six New Zealand white rabbits. Rabbits were exposed to test material under occlusive wrap for 24 hours. Observations were made at 24, 48, 72 hours and 7 days.

Results: No skin irritation observed. Primary Irritation Index was 3.8. Only effect observed was ^{fur} substance stained fur pink, fur then turned yellow within 48 hours of treatment.

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Study Classification: Core Minimum Data.

Toxicity Category: IV

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