UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: January 31, 1979

SUBJECT: 239-2039 Volck Supreme Oil Spray
239-1736 Volck Supreme Spray
Caswell 646B

FROM: Byron T. Backus
Insecticide-Rodenticide Branch/Technical Support Section

TO: Marilyn Mautz (Acting PM-16)
Insecticide-Rodenticide Branch/Technical Support Section

Registrant: Chevron Chemical Company
Ortho Division
940 Hensley Street
Richmond, California 94804

Active Ingredient:

Petroleum Oil..... 98%
Inert Ingredients:..... 2%
Petroleum Oil Min. Unsulfonated Residue..... 92%
Petroleum Oil Classification - Unclassifed

RECOMMENDATIONS:

1. The Acute Oral LD50, Skin Irritation, Eye Irritation and Inhalation Studies are core minimum data, and are acceptable. The Dermal LD50 Study is considered supplemental, as only males were tested, and for other reasons as indicated in the review.

2. The registrant is proposing, as part of this application for amended registration, to delete the statement "Harmful If Swallowed" which currently appears on these labels. Since the registrant has submitted data showing this product is in toxicity category IV on the basis of Acute Oral LD50, then no precautionary statement is required to address potential hazard by this route according to the Regulations (FR 40, #129, July 3, 1975, p. 28280). It is known the toxicity of similar compounds (liquid petrolatum, lubricating oils) by ingestion is low. These compounds are not absorbed in the gastrointestinal tract, and they usually produce a mild laxative effect. Since they do not produce vomiting, as does kerosene, there is considerably less possibility of aspiration of this material into the lungs.

3. The registrant is proposing the statement:

> CAUTION: Avoid contact with eyes or skin. Avoid breathing vapor or spray mist. In case of contact immediately flush eyes with fresh water for 15 minutes; for skin wash with plenty of soap and water.

Since the product produces a slight eye irritation, it is in toxicity category III for eye effects. The phrase "Get medical attention if irritation persists," is appropriate, following directions to flush eyes with fresh water for 15 minutes.

4. With the addition of the above phrase to the precautionary labeling, IRB-TSS has no objection, on the basis of safety, to these labeling amendments.

REVIEW:

1. Acute Oral LD50; test material: Volck Supreme Oil Spray SX-969 (Environmental Health & Toxicity, 225 Bush St., San Francisco, California 94104; S-1258; dated March 31, 1978; received from Chevron Chemical Co. - Ortho Division, January 19, 1979; EPA Acc. No. 236813).

   Procedure: A dose of 5 gms/kg of undiluted test material was intragastrically administered to 5M, 5F Sprague-Dawley derived rats, with a 14-day observation period.

   Results: No mortalities, no signs of toxicity observed, unremarkable autopsies. No significant differences were noted between weight gains of test and control rats.

   Classification: Core Minimum Data, as individual weights were unreported. Tox. Category IV = CAUTION.

2. Acute Dermal LD50 (rabbit); test material: Volck Supreme Oil Spray SX-969 (Environmental Health & Toxicity, 225 Bush St., San Francisco, California 94104; S-1259; dated March 31, 1978; received from Chevron Chemical Co. - Ortho Division, January 19, 1979; EPA Acc. No. 236813).

Procedure: A dose of 5 gms/kg of test material was dermally applied to the trunks of 6 male rabbits who had had their fur clipped. Three animals had intact, three had abraded skin. Material held in contact next to rabbit for 24 hours with plastic; animals observed for 14 days.

Results: No mortalities. No observed signs of toxicity, except for "moderate skin irritation" (no scores given) which cleared in 3 days. Weights of the treated animals were not significantly different from those of controls. At autopsy, no remarkable pathological changes were noted.

Classification: Supplementary Data, as only male rabbits were tested, individual subject weights and skin irritation scores (or extent and type of irritation) were not reported.

3. Skin Irritation Potential of Ortho Volck Supreme Oil Spray (cc6045) S-849 (rabbit) (Environmental Health & Toxicity, 225 Bush St., San Francisco, California 94104; dated April 9, 1975; received from Chevron Chemical Co. - Ortho Division, January 19, 1979; EOA Acc. No. 236813).

Procedure: 0.5 ml. of the test material was applied to both intact and abraded sites on the back of each of 6 male rabbits. After a 24-hour exposure period, wrapping and residual material were removed.

Results: No irritation was observed. Presumably, all scores = 0.

Classification: Core Minimum Data
Tox. Cat. IV = CAUTION.

4. The Eye Irritation Potential of Ortho Volck Supreme Oil Spray (cc5673) S-789 (Environmental Health & Toxicity, 225 Bush St., San Francisco, California 94104; dated April 9, 1975; received from Chevron Chemical Co. - Ortho Division, January 19. 1979; EPA Acc. No. 236813).

Procedure: 0.1 ml of the test substance was placed in the conjunctival sac of one eye for each of 6 rabbits, with 72-hour observation.

Results: No corneal opacity. Slight conjunctival redness and discharge were present in all subjects at 1 hour, and two rabbits had slight redness at 24 hours. All eyes were normal at 48 hours.

Classification: Core Minimum Data.
Toxicity Category III= CAUTION.

5. The Acute Inhalation Toxicity of Ortho Volck Supreme Oil Spray (cc6445) (Environmental Health & Toxicology, 225 Bush St., San Francisco, California 94104; dated September 30, 1975; received from Chevron Chemical Co., Ortho Division, January 19, 1979; EPA Acc. No. 236813).

A. Vapor Exposure

Procedure: 5M, 5F adult Sprague-Dawley derived rats were exposured for 1 hour to a vapor containing 1 mg/liter of the test material, and observed for 14 days.

Results: No mortalities. No statistical difference observed between weights of test and control animals. LC50 above 1 mg/liter.

B. Aerosol Exposure

Procedure: 5M, 5F adult Sprague-Dawley derived ratsswere exposured for 1 hour to an aerosol containing 68.3 mg/liter, and were then observed for 14 days.

Results: No mortalities. No statistical differences observed between weights of test and control animals. LC50 above 68.3 mg/liter.

Classification: Core Minimum Data.
Toxicity Category IV = CAUTION.

Byron T. Barker