Memorandum

Date: 6 January 1983

Subject: EPA Reg. No. 239-1513 ORTHO SEVIN DUST
Caswell #160

From: B. T. Backus
IRB/TSS

To: Mr. Jay Ellenberger
Product Manager 12

Registrant: Chevron Chemical Co.
Ortho Consumer Products Division
940 Hensley St.
Richmond, CA 94804-0036

Active Ingredient:
Carbaryl (1-naphthyl N-methylcarbamate).....10%
Inert Ingredients:.....90%

Background:

The registrant is requesting deletion of the current label statements "For agricultural use only" and "Do not store in areas accessible to children." An acute oral LD_{50} study has been submitted.

Comments and Recommendations:

1. The acute oral LD_{50} study received 11-16-82 is acceptable.

2. IRB/TSS would have no objection, on the basis of hazard to humans and domestic animals, to the deletion of the statements "For agricultural use only" and "Do not store in areas accessible to children" provided the additional labeling revisions indicated below are made.

Labeling:

1. A statement similar to the following should be added under Hazards to Humans and Domestic Animals:

   May cause eye irritation. Avoid eye contact.

2. Since the technique of inducing vomiting is not indicated, the IF SWALLOWED statement should be revised to something like:

   Call a doctor immediately. Give a large amount of water to drink and make person vomit.

Hopefully, this would indicate the correct sequence of events, and the doctor should be able to give some recommendations as to the method of inducing vomiting, or whether this treatment would be appropriate if the patient is unconscious or convulsing.

Review:

The following study was conducted at the Chevron Environmental Health Center, P.O. Box 1272, Castro and Midway Streets, Richmond, CA 94802. Study was received at EPA 11-16-82, and is in Acc. 248837. MRID 118057

1. Acute Oral LD_{50} - Rat. (Title: The Acute Oral Toxicity of Sevin 10 Dust in Adult Male and Female Rats). SOCAL 1997; dated Nov. 10, 1982.

   Procedure: Groups of 5 or 10 male SD rats received oral dosages of 1.0, 1.5, 2.2, 2.6, 3.3 or 5.0 g/kg. Groups of 5 or 10 female SD rats received oral dosages of 1.0, 1.5, 2.2 or 3.3 g/kg. Subjects were subsequently observed for 14 days.

   Results:

Dosage Level (g/kg)	Mortalities/Animals Dosed M	F
1.0	0/5	0/5
1.5	1/10	4/10
2.2	1/10	10/10
2.6	4/10	-
3.3	4/5	5/5
5.0	5/5	-

   Acute Oral LD_{50} (male) = 2.9 (2.0-4.3) g/kg
   Acute Oral LD_{50} (female) = 1.6 (0.96-2.6) g/kg

   Symptoms: tremors, ocular discharge, fasciculations, hypoactivity, salivation, collapse. Some symptoms noted in all subjects, even at the lowest dosage level.

   Statement is made that at necropsy no pathological changes were noted that could be attributed to the test material.

   Study Classification: Core Minimum Data (individual weight data, individual necropsy results not reported).

   Product Classification: Tox. Cat. III

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