



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Date: July 30, 1982

Subject: EPA Registration Number: 2204-12
Nopocide N-96

From: Deloris F. Graham *DFG 8/4/82*
FHB/TSS *CG 8/4/82*

To: Henry Jacoby
Product Manager(21)

Applicant: Diamond Shamrock Corporation
Process Chemicals Division
P.O. Box 2386-R
Morristown, NJ 07960

Active Ingredient:
Chlorothalonil(tetrachloroisophthalonitrile)96.0%
Inert Ingredients4.0%

Background: Submitted a letter in response to a letter from the agency dated April 15, 1982.

Recommendation:

- (1) At re-evaluation of the Acute Inhalation Study, the appropriate toxicity category was determined to be II-WARNING, therefore the "poison in red" statement does not have to appear on label.
- (3) Acute Inhalation Toxicity Study: Diamond Shamrock; Report #DS-2787; April 28, 1980.

Procedure: A series of four-hour inhalation exposures were done using six groups of Sprague-Dawley rats (5M and 5F/group). Nominal concentrations were 0.13, 0.17, 0.28, 0.28, 0.85, and 1.79 mg/l. Airborne concentrations were 0.03, 0.04, 0.06, 0.10, 0.25 and 0.39 mg/l. As a control, 5M and 5F rats were exposed to dry air in an exposure chamber for four hours. Average mass median diameter ranged from 0.92 to 2.65 micrometers. Relative humidity ranged from 76-88%. Temperature ranged from 18-21°C. Observations were made at 15, 30 and 45 minutes, and hourly during exposure period. Necropsy performed on all animals.

Results: At control, 0.03 and 0.06 mg/l, no mortalities; at 0.04 mg/l, 1/10 died; at 0.10 mg/l, 5/10 died; at 0.25 mg/l, 10/10 died; at 0.39 mg/l, 9/10 died.

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Toxic signs included respiratory disfunction, labored breathing, gasping, excessive ocular, nasal and oral secretions, eyes partially and completely closed, decreased activity, wet rales, dry rales.

Necropsy revealed mottled lung, discoloration of lung and/or dark red foci on lungs, cloudy and slightly vascularized right and left corneas.

LC₅₀ (airborne concentration) was 0.11 mg/l with confidence limits between 0.09 and 0.14. LC₅₀ (nominal concentration) was 0.35 mg/l with confidence limits between 0.25 and 0.50 mg/l.

Study Classification: Core Guideline Data.

Toxicity Category: II-WARNING

Note To PM: Due to the change in criteria for the Acute Inhalation Study, the LC₅₀ of this product (0.11mg/l) falls under category II -WARNING