US ERA ARCHIVE DOCUMENT

# FINAL

### DATA EVALUATION REPORT

**Fortress** 

Acute Dermal Toxicity Study Type:

# Prepared for:

Health Effects Division Office of Pesticide Programs U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Arlington, VA 22202

# Prepared by:

Clement International Corporation 9300 Lee Highway Fairfax, VA 22031

Principal Reviewer

Pia Lindström, DPH

Date 4/26/93

Independent Reviewer

kliam McLellan,

Date July 21, 1993

Date  $\frac{7}{27/9}$ 

QA/QC Manager

Sharon Segal, Ph.D.

Contract Number: 68D10075 Work Assignment Number: 2-097

Clement Number: 261

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EPA Reviewer and

Section Head: Marion Copley, D.V.M.

Review Section IV, Toxicology Branch I/HED

Signature: Manon Copyler Date: 8/9/93

### DATA EVALUATION REPORT

STUDY TYPE: Acute Dermal Toxicity (Rabbit); Guideline 81-2

# EPA IDENTIFICATION NUMBERS

CAS No.: 54593-83-8

MRID No.: 425592-07

PC Code: 129006

Tox. Chem. No.: 663P

TEST MATERIAL: Fortress® 5G (Granule)

SYNONYM: DPX-43898-26; IN 43898-26; Phosphorothioic acid, 0,0-diethyl

0-(1,2,2,2-tetrachloroethyl) ester

SPONSOR: Du Pont Agricultural Products, Wilmington, DE

STUDY NUMBER: HLR 236-92

TESTING FACILITY: E.I. du Pont de Nemours and Company, Haskell Laboratory for

Toxicology and Industrial Medicine, Newark, DE

TITLE OF REPORT: Acute Dermal Toxicity Study with DPX-43898-26 in Rabbits

AUTHOR: J.W. Sarver

STUDY COMPLETED: August 26, 1992

 $\underline{\text{CONCLUSIONS}}\colon \text{ Limit test--Estimated acute dermal LD}_{50} \text{ in males}\colon >2000 \text{ mg/kg}$ 

Estimated acute dermal LD<sub>50</sub> in females: >2000 mg/kg

TOXICITY CATEGORY: III

<u>CORE CLASSIFICATION</u>: Core <u>Guideline</u>. This study meets the requirements set forth under EPA guideline series 81-2 for an acute dermal toxicity study.

#### **MATERIALS** Α.

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# Test Compound

Test material:

DPX-43898-26 (5G Formulation)

Identification number:

Physical description:

Brown solid granule

Purity:

5.3%

Storage condition:

Not reported

Stability:

Not reported

Dose Level:

2000 mg/kg test material moistened with deionized water

(limit test)

Controls: None were used

## Test Animals

Species:

Rabbit

Strain:

New Zealand White

Source:

Hare Marland, Hewitt, NJ

Sex:

Male and female Young adult

Age: Weight:

Males--3.34-3.56 kg; Females--2.95-3.48

No. animals/dose:

5/sex

#### TEST PERFORMANCE В.

Environmental Conditions: Temperature 20° ± 2°C

Humidity

50% ± 10%

No. air changes per hour not reported

A 12/12 hour light/dark cycle was maintained

Skin Preparation:

24 hours prior to dermal application, the back

of each animal was shaved.

Application:

The test compound was applied to a gauze pad approximately 190 cm<sup>2</sup> in size which was then applied to the shaved back of the animals (10% of total body surface). The test site was then

wrapped with plastic film, stretch gauze

bandage, and an elastic adhesive bandage. After 24 hours, the bandages were removed and the test site was washed with warm water and dried with a

paper towel.

Exposure Time:

24 hrs

Observation Period:

14 days

Observation Frequency:

5 hours after treatment; daily thereafter

Body Weight Intervals:

Days 0, 1, 7, and 14

Gross Pathology:

NO

Histopathology:

NO

#### C. RESULTS

Mortality: No mortality was observed. Animals were sacrificed on day 14.

<u>Clinical Observations</u>: No clinical signs were observed.

<u>Dermal Observations</u>: Slight erythema was evident in one male and one female 24 hours after exposure. By 48 hours, no dermal effects could be observed.

<u>Body Weights</u>: Slight decreases in body weights were observed 24 hours after treatment in all animals. Overall, the decreases were 4% and 3% lower than on day 0 in males and females, respectively. All animals were gaining weight by day 7. Mean body weights were as follows:

Group	Day 0	Day 1	Day 7	Day 14
Males	3425 g	3296 g	3668 g	3564 g
Females	3140 g	3050 g	3332 g	3407 g

### D. REVIEWER'S COMMENTS

This study was well designed, conducted, and reported. The reviewers agree with the study authors conclusions.

# E. QUALITY ASSURANCE MEASURES

Was the test performed under GLPs? YES

A quality Assurance Statement, signed and dated August 25, 1992, was submitted and included dates when findings were reported. (The findings were not stated.)