

US EPA ARCHIVE DOCUMENT

3-7-90

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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES
March 1st, 1990

MEMORANDUM

SUBJECT: EPA Reg. No./File Symbol 241-239
AVENGE

FROM: Olga Odiott *OO*
Precautionary Review Section *E 3/7/90*
Registration Support Branch
Registration Division (H75-05C)

TO: Joanne Miller (PM 23)
fungicide-herbicide
Registration Division (H75-05C)

APPLICANT: American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, NJ 08540

FORMULATION FROM LABEL:

363A	Active Ingredient(s):	% by wt.
	<u>difenzquat methyl sulfate</u>	<u>76.1%</u>
	Inert Ingredient(s):	<u>23.9%</u>
	Total	100.0%

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BACKGROUND: Acute oral and primary eye irritation studies were submitted to comply with the requirements for the Digenoquat Methyl Sulfate Registration Standard. The studies were conducted at American Cyanamid Corporation. HPLD No. 413005-02 and 413005-01.

RECOMMENDATION: RSB/PRS finds the studies acceptable to support registration of 241-239.

The signal word is DANGER, based on eye irritation.

The product's registration jacket does not contain data or reference to data on skin sensitization, acute inhalation or acute dermal as required by the Digenoquat Registration Standard (See III B.1) These studies are required.

Labeling:

Proposed label changes are satisfactory.

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DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§81-1)

Product Manager: (23) Reviewer: O. Odiott
 MRID No.: 413005-02 Report Date: Oct 9, 1989
 Testing Facility: American Cyanamid Comp. Report No. A89-195
 Author(s): Joel E. Fischer
 Species: albino rat; Sprague-Dawley derived
 Age: young adult (5-6 weeks) Observation Days (Post
 Weight: Exposure): (14); other ()
 Source: Charles River Lab. Inc. Wilmington MA
 Test Material: Difenzoquat; AVERAGE
 Quality Assurance (40 CFR §160.12): attached.

Conclusion:

- LD50 (mg/kg): Males = 617 (497-766) mg/kg; Females = 373 (266-524) mg/kg; Combined = 485 (372-632) mg/kg.
- The estimated LD50 is .
- Tox. Category: II. Classification: Sublethal

Procedure (Deviations From §81-1):

Results:

Reported Mortality

DOSAGE (/kg)	(NUMBER KILLED/NUMBER TESTED)		
	Males	Females	Combined
200 mg/kg	0/5	0/5	0/10
400 mg/kg	0/5	3/5	3/10
800 mg/kg	4/5	5/5	9/10

Symptomology & Gross Necropsy Findings:

Decreased activity, salivation, diuresis and prostration
were observed. At necropsy congested liver and kidneys,
enlarged intestines full with fluids & vascularized
stomachs were noted.

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DATA REVIEW FOR ACUTE EYE IRRITATION TESTING (§81-4)

Product Manager: (23) Reviewer: O. Odiott
 MRID No.: 413005-01 Report Date: Feb. 7, 1989
 Testing Laboratory: American Cyanamid Corp Report No. A-87-128
 Author(s): Joel E. Fisher
 Species: New Zealand white rabbit
 Sex: 6 males Weight: _____
 Source: Skipack Farms, Skipack, Pennsylvania
 Dosage: 0.1 gm
 Test Material: NIENGE
 Quality Assurance (40 CFR §160.12): attached.

Summary:

Tox. Category: I Classification: Guideline

Procedure (Deviation From §81-4): _____

Results:

	Observations (number "positive"/number tested)							
	Hour	Days						
	1	1	2	3	4	7	14	21
Cornea Opacity	0/6	5/6	5/6	5/6	3/6	1/6	1/6	1/6
Iris	0/6	0/6	0/6	0/6	1/6	1/6	0/6	0/6
Conjunctivae Redness	0/6	0/6	2/6	2/6	2/6	1/6	0/6	0/6
Cnemosis	6/6	5/6	3/6	2/6	2/6	2/6	0/6	0/6
Discharge	6/6	5/6	4/6	2/6	2/6	2/6	0/6	0/6
Slight vascularization of the cornea.	0/6	0/6	0/6	0/6	0/6	1/6	1/6	1/6

Comments: _____

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AVENGE (DIFENZOQUAT)

Page _____ is not included in this copy.

Pages 5 through 7 are not included.

The material not included contains the following type of information:

- Identity of product inert ingredients.
 - Identity of product impurities.
 - Description of the product manufacturing process.
 - Description of quality control procedures.
 - Identity of the source of product ingredients.
 - Sales or other commercial/financial information.
 - A draft product label.
 - The product confidential statement of formula.
 - Information about a pending registration action.
 - FIFRA registration data.
 - The document is a duplicate of page(s) _____.
 - The document is not responsive to the request.
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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
