

US EPA ARCHIVE DOCUMENT

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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

July 9, 1990

MEMORANDUM

SUBJECT: EPA Reg. No./File Symbol 10182-RUN
Cypermethrin 70% Technical

FROM: Olga Odjott OLG E 7/10/90
Precautionary Review Section
Registration Support Branch
Registration Division (H75-05C)

TO: George La Rocca (PM 15)
Insecticide - Identification Branch
Registration Division (H75-05C)

APPLICANT: ICI Americas
Agricultural Products Division
Concord Pike + New-Murphy Rd.
Wilmington, DE 19896

FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
<u>γ-cyano - (3-phenoxypentyl)acrylate (±) - (cis, trans) -</u>	<u>70%</u>
<u>3-(2,2-dichloroethyl)-2,2-dimethyl-</u>	<u>30%</u>
<u>pylpropylsuccinylate</u>	
Inert Ingredient(s):	
Total	100.0%

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BACKGROUND

ICI Americas Inc. submitted an acute inhalation study on Reg. No. 10182-RUN to fulfill the acute toxicity data requirements for registration. The study was conducted at ICI Central Toxicology Lab, Cheshire, UK. MRID No. 413036-01.

The product was characterized as follows in a previous review: acute oral- Cat II; acute dermal- Cat III; acute eye- Cat III; skin irritation- Cat IV; skin sensitization- a sensitizer.

RECOMMENDATION

RSB/PRS finds the study supplementary data. The MMAD's are greater than 1.0 μ . The Agency requires at least 25% of the particles to meet the size requirement. A Memo by Dr. Stanley Gross on acute inhalation toxicity testing is included for registrant's reference.

LABELINGStatements of practical treatment:

The last sentence of the "If in eyes" statement should read:
"Call a physician if irritation persists."

Precautionary statements:

Delete: "...goggles, or full face shield." Use of goggles is not required for this product's formulation.

Add: "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

Further label revisions may be necessary upon submittance of outstanding data.

Note to PM:

In a precautionary labeling review dated 3-8-88, the dermal sensitization study with MRID No. 403777-01 was classified as a moderate sensitizer. The letter sent to the registrant on May 23, 1988 indicated the product was a non-sensitizer and precautionary labeling regarding sensitization was not necessary.

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DATA REVIEW FOR ACUTE INHALATION TOXICITY TESTING (§81-3)

Product Manager: (15)
 MRID No.: 413036-01
 Testing Laboratory: ICI Central Tox Lab.
 Author(s): N. Bramer
 Species: Wistar derived albino Rats
 Sex: 15 males, 15 females Weight: 201 - 268 gm
 Source: Alderley Park, Cheshire, UK
 Test Material: Cypermethrin (technical) 72.9% AI.
 Quality Assurance (40 CFR §160.12): attached

Reviewer: O. Odiott
 Report Date: 24 Apr. 1989
 Report No. HR0862

Summary:

- LC₅₀ (mg/kg): Males = _____; Females = _____; Combined = _____
- The estimated LC₅₀ is _____
- Mean Concentration: _____
- Tox. Category: ____ Classification: Supplementary

Procedure (Deviations From §81-2): MMAD greater than 1.0 μ .

*animals were killed due to severe clinical effects
on days 1 and 2 following exposure

Results:

Exposure Concentration (mg/L)	Reported Mortality		
	* NUMBER KILLED/NUMBER TESTED		
	Males	Females	Combined
0.53 mg/l	0/5	0/5	0/10
1.05 mg/l	1/5	1/5	2/10
1.98 mg/l	5/5	5/5	10/10
MMAD = 3.95 μ , 4.68 μ and 5.20 μ , respectively			

Symptomology & Gross Necropsy Findings:

lacrimation, salivation, reduced breathing rate, increased
breathing depth, reduced response to sound, intermittent
tail erections, hunched posture, piloerection, chromo-
dacryparkeia, shaking and reduced stability. No abnormal
ities reported for gross necropsy examinations.

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Cypermethrin Review

Page _____ is not included in this copy.

Pages 4 through 6 are not included in this copy.

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.
