United States **Environmental Protection** Agency

Prevention, Pesticides And Toxic Substances (7508W)

EPA 738-R-94-033 September 1994



EPA Reregistration **Eligibility Decision (RED)** Piperalin



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

CERTIFIED MAIL

Dear Registrant:

I am pleased to announce that the Environmental Protection Agency has completed its reregistration eligibility review and decisions on the pesticide chemical case Piperalin which includes the active ingredient 3-(2-Methylpiperidino)propyl 3,4-dichlorobenzoate. The enclosed <u>Reregistration Eligibility Decision</u> (RED) contains the Agency's evaluation of the data base of this chemical, its conclusions of the potential human health and environmental risks of the current product uses, and its decisions and conditions under which these uses and products will be eligible for reregistration. The RED includes the data and labeling requirements for products for reregistration. It may also include requirements for additional data (generic) on the active ingredient to confirm the risk assessments.

To assist you with a proper response, read the enclosed document entitled "Summary of Instructions for Responding to the RED". This summary also refers to other enclosed documents which include further instructions. You must follow all instructions and submit complete and timely responses. The first set of required responses are due 90 days from the date of this letter. The second set of required responses are due 8 months from the date of this letter. Complete and timely responses will avoid the Agency taking the enforcement action of suspension against your products.

If you have questions on the product specific data requirements, the required generic data, or wish to meet with the Agency, please contact the Special Review and Reregistration Division representative, C.P. Moran at (703) 308-8590.

Sincerely yours,

Louis P. True, Jr., Acting Director Special Review and Reregistration Division

Enclosures

SUMMARY OF INSTRUCTIONS FOR RESPONDING TO THE REREGISTRATION ELIGIBILITY DECISION (RED)

1. **DATA CALL-IN (DCI) OR "90-DAY RESPONSE"**--If generic data are required for reregistration, a DCI letter will be enclosed describing such data. If product specific data are required, another DCI letter will be enclosed listing such requirements. If both generic and product specific data are required, a combined Generic and Product Specific letter will be enclosed describing such data. Complete the two response forms provided with each DCI letter (or four forms for the combined) by following the instructions provided. You must submit the response forms for each product and for each DCI within 90 days of the date of this letter (RED issuance date); otherwise, your product may be suspended.

2. **TIME EXTENSIONS AND DATA WAIVER REQUESTS**--No time extension requests will be granted for the 90-day response. Time extension requests may be submitted only with respect to actual data submissions. Requests for data waivers must be submitted as part of the 90-day response. Requests for time extensions should be submitted in the 90-day response, but certainly no later than the 8-month response date. All data waiver and time extension requests must be accompanied by a full justification. All waivers and time extensions must be granted by EPA in order to go into effect.

3. <u>APPLICATION FOR REREGISTRATION OR "8-MONTH RESPONSE"</u>--You must submit the following items for each product within eight months of the date of this letter (RED issuance date).

a. <u>Application for Reregistration</u> (EPA Form 8570-1). Use only an original application form. Mark it "Application for Reregistration." Send your Application for Reregistration (along with the other forms listed in b-e below) to the address listed in item 5.

b. **Five copies of draft labeling** which complies with the RED and current regulations and requirements. Only make labeling changes which are required by the RED and current regulations (40 CFR 156.10) and policies. Submit any other amendments (such as formulation changes, or labeling changes not related to reregistration) separately. You may delete uses which the RED says are ineligible for reregistration. For further labeling guidance, refer to the labeling section of the EPA publication "General Information on Applying for Registration in the U.S., Second Edition, August 1992" (available from the National Technical Information Service, publication #PB92-221811; telephone number 703-487-4650).

c. <u>Generic or Product Specific Data</u>. Submit all data in a format which complies with PR Notice 86-5, and/or submit citations of data already submitted and give the EPA identifier (MRID) numbers. Before citing these studies, you must **make sure that they meet the Agency's acceptance criteria** (attached to the DCI).

d. <u>**Two copies of the Confidential Statement of Formula (CSF)**</u> for each basic and each alternate formulation. The labeling and CSF which you submit for each product must comply with P.R. Notice 91-2 by declaring the active ingredient as the **nominal concentration**. You have two options for submitting a CSF: (1) accept the standard certified limits (see 40 CFR §158.175) or (2) provide certified limits that are supported by the analysis of five batches. If you choose the second option, you must submit or cite the data for the five batches along with a certification statement as described in 40 CFR §158.175(e). A copy of the CSF is enclosed; follow the instructions on its back.

e. **Certification With Respect to Data Compensation Requirements**. Complete and sign EPA form 8570-31 for each product.

4. **COMMENTS IN RESPONSE TO FEDERAL REGISTER NOTICE**--Comments pertaining to the content of the RED may be submitted to the address shown in the <u>Federal</u> Register Notice which announces the availability of this RED.

5. WHERE TO SEND PRODUCT SPECIFIC DCI RESPONSES (90-DAY) AND APPLICATIONS FOR REREGISTRATION (8-MONTH RESPONSES)

By U.S. Mail:

Document Processing Desk **(RED-SRRD-PRB)** Office of Pesticide Programs (7504C) EPA, 401 M St. S.W. Washington, D.C. 20460-0001

By express:

Document Processing Desk (**RED-SRRD-PRB**) Office of Pesticide Programs (7504C) Room 266A, Crystal Mall 2 1921 Jefferson Davis Hwy. Arlington, VA 22202

6. <u>EPA'S REVIEWS</u>--EPA will screen all submissions for completeness; those which are not complete will be returned with a request for corrections. EPA will try to respond to data waiver and time extension requests within 60 days. EPA will also try to respond to all 8-month submissions with a final reregistration determination within 14 months after the RED has been issued.

REREGISTRATION ELIGIBILITY DECISION

PIPERALIN

LIST C

CASE 3114

ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDE PROGRAMS SPECIAL REVIEW AND REREGISTRATION DIVISION

TABLE OF CONTENTS

PIPE	RALIN	RERE	GISTF	ATION	N EI	LIGI	BIL	ITY	' DI	ECIS	SIO	N 7	ΓE/	AM	[.	•	••	• •	•	•••	• •	•••	i
EXE	CUTIVE	E SUM	MARY	[•••	•••	•••		•••			•••	•••	••			••	• •	•	•••		•	vi
I.	INTR	ODUC"	TION		•••	•••			•••	•••	•••	•••	•••			•	•••		•	•••			1
II.	CASE	OVER	RVIEW	V	•••	• • • •			•••										•		• •		2
	А.	Chem	ical Ov	verview		• • • •			•••										•		• •		2
	В.	Use P	rofile		• •	• • • •			•••										•		• •		2
	C.	Regul	atory l	History	••	•••			•••			•••	•••	••		•	•••	•••	•	•••	• •	•••	3
III.	SCIEN	NCE A	SSESS	MENT	• • •	• • • •			•••										•		• •		4
	А.	Physic	cal Cho	emistry	Ass	essm	ıent		•••										•				4
	В.	Huma	n Hea	lth Asse	essm	ient .			•••										•				4
		1.	Toxic	ology A	Lsses	ssme	nt.		•••										•				4
			a.	Acute	• To	xicity	у.		•••										•				4
			b.	Subch	iron	ic To	oxici	ity .	•••										•		• •		5
			c.	Devel	opm	ienta	l To	oxici	ty										•		• •		5
			d.	Mutag	geni	city	• •		•••										•		• •		6
		2.	Expo	sure As	sess	ment	t		•••										•		• •		6
			a.	Occup	patio	onal	and	Res	side	ntia	Ι.								•		• •		6
		3.	Risk	Assessm																			
			a.	Occup	patio	onal	and	Res	side	ntia	Ι.					•	••		•	••	• •		6
	С.	Envir	onmen	tal Asse	essm	ient .		•••	••				•••			•	••		•	•••	• •		6
		1.	Envir	ronment																			
			a.	Envir																			
			b.	Envir																			
		2.	Ecolo	gical Ef																			
			a.	Ecolog																			
				(1)	Te	errest	trial	Dat	t a .			••	•••			•	••		•	•••	• •	•	10
				(2)		luati																	
				(3)	No	on-Ta	arget	t In	sect	s Da	ıta					•			•		• •	•	12
			b.	Ecolog																			
IV.	RISK	MANA	GEM	ENT AI	ND]	RER	EGI	IST	RA7	FIO	N D	EC	CIS	IO	Ν.				•		• •	•	14
	А.	Deter	minati	on of El	ligib	oility	•••		•••										•		• •		14
		1.		bility De	-	•																	
		2.		ble and i																			
	В.			Position																			
		1.	Enda	ngered	Spe	cies ?	State	eme	nt	• • •	••		•••	•••	•••				•		• •		15
		1. Endangered Species Statement																					

V.	ACT	TONS REQUIRED BY REGISTRANTS	15
	Α.	Manufacturing-Use Products	15
		1. Additional Generic Data Requirements	15
	В.	End-Use Products	16
		1. Additional Product-Specific Data Requirements	16
		2. Labeling Requirements for End-Use Products	16
	C.	Existing Stocks	
VI.		ENDICES	
	APP	ENDIX A. Table of Use Patterns Subject to Reregistration	23
	APP	ENDIX B. Table of the Generic Data Requirements and Studies Used to	
		Make the Reregistration Decision	
	APP	ENDIX C. Citations Considered to be Part of the Data Base Supporting the	
		Reregistration of Piperalin	
	APP	ENDIX D. List of Available Related Documents	43
	APP	ENDIX E.	47
		PR Notice 86-5	49
		PR Notice 91-2	
	APP	ENDIX F. Combined Generic and Product Specific Data Call-In	73
		Attachment 1. Chemical Status Sheets	91
		Attachment 2. Combined Generic and Product Specific Data Call-In	
		Response Forms (Form A inserts) Plus Instructions	95
		Attachment 3. Generic and Product Specific Requirement Status and	
		Registrant's Response Forms (Form B inserts) and Instructions	
			01
		Attachment 4. EPA Batching of End-Use Products for Meeting Data	
		1 0	07
		Attachment 5. EPA Acceptance Criteria	11
		Attachment 6. List of All Registrants Sent This Data Call-In (insert) Notic	e
			25
		Attachment 7. Cost Share Data Compensation Forms, Confidential	
		Statement of Formula Form and Instructions	27
	APP	ENDIX G. FACT SHEET 13	37

PIPERALIN REREGISTRATION ELIGIBILITY DECISION TEAM

Office of Pesticide Programs:

Biological and Economic Analysis Division

Richard Michell	Biological Analysis Branch
Phyllis Johnson	Biological Analysis Branch
Dohl Herzi	Economic Analysis Branch

Environmental Fate and Effects Division

Mary Frankenberry Patricia Ott Kay Valente-Montague Science Analysis and Coordination Staff **Environmental Fate and Groundwater Branch Ecological Effects Branch**

Occupational and Residential Exposure Branch

Health Effects Division

Charles Frick Patricia McLaughlin San Yvette Williams Winston Dang

Registration Division

Sidney Jackson Amelia Acierto Mark Perry Sami Malek

Fungicide-Herbicide Branch Registration Support Branch

Chemical Coordination Branch

Toxicology Branch II

Toxicology Branch II

Registration Support Branch Registration Support Branch

Special Review and Reregistration Division

Sue Rathman Policy, Planning and Operations Branch **Barbara Briscoe**

Office of General Council

Kevin Lee

Office of Compliance

Phyllis Flaherty

Policy, Planning and Operations Branch

Agriculture Branch

ORD

Vivian Williams

PSPS

Jean Frane

GLOSSARY OF TERMS AND ABBREVIATIONS

AE	Acid equivalent
a.i.	Active Ingredient
ARC	Anticipated Residue Contribution
CAS	Chemical Abstracts Service
CSF	Confidential Statement of Formula
DRES	Dietary Risk Evaluation System
DWEL	Drinking Water Equivalent Level (DWEL) The DWEL represents a medium specific (i.e. drinking water) lifetime exposure at which adverse, non carcinogenic health effects are not anticipated to occur.
EEC	Estimated Environmental Concentration. The estimated pesticide concentration in an environment, such as a terrestrial ecosystem.
EP	End-Use Product
EPA	U.S. Environmental Protection Agency
FDA	Food and Drug Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FFDCA	Federal Food, Drug, and Cosmetic Act
GLC	Gas Liquid Chromatography
GRAS	Generally Recognized As Safe as designated by FDA
НА	Health Advisory (HA) The HA values are used as informal guidance to municipalities and other organizations when emergency spills or contamination situations occur.
HDT	Highest Dose Tested
LC ₅₀	Median Lethal Concentration. A statistically derived concentration of a substance that can be expected to cause death in 50% of test animals. It is

GLOSSARY OF TERMS AND ABBREVIATIONS

*usually expressed as the weight of substance per weight or volume of water, air or feed, e.g., mg/l, mg/kg or ppm.

- LD_{50} Median Lethal Dose. A statistically derived single dose that can be expected to cause death in 50% of the test animals when administered by the route indicated (oral, dermal, inhalation). It is expressed as a weight of substance per unit weight of animal, e.g., mg/kg.
- LD_{lo} Lethal Dose-low. Lowest Dose at which lethality occurs
- LEL Lowest Effect Level
- LOC Level of Concern
- LOEL Lowest Observed Effect Level
- MCLG Maximum Contaminant Level Goal (MCLG) The MCLG is used by the Agency to regulate contaminants in drinking water under the Safe Drinking Water Act.
- µg/g Micrograms Per Gram
- mg/L Milligrams Per Liter
- MP Manufacturing-Use Product
- MPI Maximum Permissible Intake
- MOE Margin Of Exposure
- MRID Master Record Identification (number). EPA's system of recording and tracking studies submitted.
- N/A Not Applicable
- NPDES National Pollutant Discharge Elimination System
- NOEL No Observed Effect Level
- OPP Office of Pesticide Programs
- PADI Provisional Acceptable Daily Intake

GLOSSARY OF TERMS AND ABBREVIATIONS

PAM	Pesticide Analytical Method
PPE	Personal Protective Equipment
ppb	Parts Per Billion
ppm	Parts Per Million
PRN	Pesticide Registration Notice
\mathbf{Q}_{1}^{*}	The Carcinogenic Potential of a Compound, Quantified by the EPA's Cancer Risk Model
RED	Reregistration Eligibility Decision
REI	Restricted Entry Interval
RfD	Reference Dose
RS	Registration Standard
TD	Toxic Dose. The dose at which a substance produces a toxic effect.
ТС	Toxic Concentration. The concentration at which a substance produces a toxic effect.
TEP	Typical End-Use Product
TGAI	Technical Grade Active Ingredient
TMRC	Theoretical Maximum Residue Contribution
TLC	Thin Layer Chromatography
WPS	Worker Protection Standard

EXECUTIVE SUMMARY

The Agency has determined that the uses of piperalin as currently registered will not cause unreasonable risk to humans or the environment and these uses are eligible for reregistration. The Agency is requiring an in vivo cytogenetics assay using either a) metaphase analysis (aberrations) or b) micronucleus assay (84-2(b)); and confirmation of the identity of the major degradates found in the Hydrolysis (161-1), Aerobic Soil metabolism (162-1), and Anaerobic Soil metabolism (162-2) studies.

In addition, in order to assess the leaching potential of the only two major hydrolytic degradates identified in the required laboratory studies, quantitative information is needed for DCBA and 3-(2-methylpiperidino)propyl alcohol in four soils (163-1). This information (preferably in batch equilibrium form) will fulfill the aged portion of the adsorption/desorption study requirement and result in a more complete and quantitative environmental fate assessment for piperalin and its major degradates.

Before reregistering the product containing piperalin, the Agency may require that certain product specific data, a revised Confidential Statement of Formula (CSF) and a revised label be submitted within eight months of the issuance of this document. These product specific data may include product chemistry and acute toxicity testing. After reviewing these data and the revised label and finding them acceptable in accordance with Section 3(c)(5) of FIFRA, the Agency will reregister the product.

I. INTRODUCTION

In 1988, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) was amended to accelerate the reregistration of products with active ingredients registered prior to November 1, 1984. The amended Act provides a schedule for the reregistration process to be completed in nine years. There are five phases to the reregistration process. The first four phases of the process focus on identification of data requirements to support the reregistration of an active ingredient and the generation and submission of data to fulfill the requirements. The fifth phase is a review by the U.S. Environmental Protection Agency (referred to as "the Agency") of all data submitted to support reregistration.

FIFRA Section 4(g)(2)(A) states that in Phase 5 "the Administrator shall determine whether pesticides containing such active ingredient are eligible for reregistration" before calling in data on products and either reregistering products or taking "other appropriate regulatory action." Thus, reregistration involves a thorough review of the scientific data base underlying a pesticide's registration. The purpose of the Agency's review is to reassess the potential hazards arising from the currently registered uses of the pesticide; to determine the need for additional data on health and environmental effects; and to determine whether the pesticide meets the "no unreasonable adverse effects" criterion of FIFRA.

This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of piperalin. The document consists of six sections. Section I is the introduction. Section II describes piperalin, its uses, data requirements and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for piperalin. Section V discusses the reregistration requirements for piperalin. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision. Additional details concerning the Agency's review of applicable data are available on request.

II. CASE OVERVIEW

A. Chemical Overview

The following active ingredient is covered by this Reregistration Eligibility Document:

•	Common Name:	Pipera	lin
•	Chemical Name:	3-(2-N	Aethylpiperidino)propyl 3,4-dichlorobenzoate
•	CAS Registry Numl	ber:	3478-94-2
•	OPP Chemical Cod	e:	097003
•	Empirical Formula:	:	$C_{16}H_{21}Cl_2NO_2$
•	Trade and Other Na	ames:	Benzoic acid, 3,4-dichloro-, 3-(2-methyl-1- piperidinyl)propyl ester; 1-piperidinepropanol, 2- methyl-, 3,4-dichlorobenzoate (ester); Pipron
•	Basic Manufacturer	:	SePRO Corporation
В.	Use Profile		

The following is information on the current registered uses with an overview of use sites and application methods. Additional information on the use of piperalin can be found in Appendix A.

For **piperalin**:

Type of Pesticide: Fungicide

Use Sites: Greenhouse non-food crop: Ornamental herbaceous plants (dahlia, phlox, zinnia and chyrsanthemum); Ornamental woody shrubs and vines (lilac, rose); and Ornamental and/or shade trees (catalpa)

Target Pests: Powdery mildew

Formulation Types Registered: Soluble concentrate/liquid (SC/L)

Method and Rates of Application:

Equipment - High-volume high-pressure sprayer

<u>Method and Rate</u> -Foliar spray; the rate is $\frac{1}{4}-\frac{1}{2}$ lb A.I./100 gal. ($\frac{1}{4}-\frac{1}{2}$ pint/100 gal); use the high rate if disease is already present

<u>Timing</u> - apply soon after first leaves expand, or after first symptoms appear; apply every 7-10 days, or as needed

Use Practice Limitations: Label recommends use with 3 specific surfactants; DO NOT ENTER TREATED AREAS WITHOUT PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR 12 HOURS; DO NOT APPLY THROUGH ANY TYPE OF IRRIGATION SYSTEM; DO NOT APPLY DIRECTLY TO WATER OR WETLANDS; DO NOT CONTAMINATE WATER, FOOD OR FEED

C. Regulatory History

Piperalin (3-(2-methyl piperidino) propyl 3,4-dichlorobenzene) was registered in the United States in 1964 for use as a fungicide. Only one product containing this active ingredient is currently registered. This product was recently transferred from DowElanco to SePRO Corporation under the product name Piperon L.C., EPA Reg. No. 67690-1. The product contains 84.4% active ingredient and is used exclusively for controlling powdery mildew on ornamentals grown in commercial greenhouses.

III. SCIENCE ASSESSMENT

A. Physical Chemistry Assessment

The only Piperalin product currently registered is an end-use product to be used as a fungicide for use on ornamental plants grown in commercial greenhouses.

Piperalin (84.4%, SePRO) is a pale yellow viscous liquid with a slightly musty straw odor and has density of 1.18 g/cc (9.8 lb/gal). It decomposes at 208°C, miscible in acetone, chloroform, dichloromethane, ethyl acetate and toluene. Its solubility in water at 25°C is 200 ppm, 3-5 g/100 in acetonitrile, 5-10 g/100ml in hexane and 5-10 g/100ml in methanol. A 50% slurry has a pH of 9.0. The vapor pressure is $< 1.0 \times 10^{-7}$ Torr @ 25°C, dissociation constant (pk_a) is 8.9 (in 66% DMF) and octanol/water partition coefficient (K_{ow}) is 20400 (Log K_{ow} = 4.31). It is stable to heat, to metal and metal ions (i.e., Copper, Brass, Stainless steel 304 and 316, Nickel (II) chloride [NiCl₂], Cuprous chloride [CuCl] and Ferric chloride [[FeCl₃.6H₂O]) for 28 days at 50°C and stable in storage at RT up to about seven (7) years.

B. Human Health Assessment

1. Toxicology Assessment

The toxicological data base on piperalin is adequate and will support reregistration eligibility.

a. Acute Toxicity

An acute oral toxicity study in Fischer 344 rats found an LD_{50} of approximately 800 mg/kg for females and 1419 mg/kg for males, which is toxicity category III (MRID 40503201). An acute dermal toxicity study with New Zealand white rabbits showed an LD_{50} greater than 5850 mg/kg, which is toxicity category IV (MRID 40503201). An acute inhalation toxicity study with Fischer 344 rats found the LC_{50} was greater than 0.5 mg/L, which is toxicity category III (MRID 40503201).

An eye irritation study in rabbits found mild irritation in unwashed eyes, with all effects resolved by 48 hours. This is toxicity category III (MRID 41548701). A primary dermal irritation study with New Zealand white rabbits, with an exposure time of 24 hours, found moderate to severe irritation. This is equivalent to toxicity category III for a guideline study (MRID 40503201). A test of dermal sensitization potential with guinea pigs found that piperalin was not a sensitizer (MRID 40678608).

ACUTE TOXICITY DATA

TEST	RESULTS	CATEGORY
Oral LD ₅₀ - rat	800 mg/kg F; 1419 mg/kg M	III
Dermal LD ₅₀ - rabbit	> 5850 mg/kg	IV
Inhalation LC_{50} - rat	> 0.5 mg/L	III
Eye effects - rabbit	mild irritation	III
Skin irritation - rabbit	severe irritation (24 hr)	III
Skin sensitization - guinea pig	non-sensitizer	

b. Subchronic Toxicity

In a 21-day dermal toxicity study, New Zealand white rabbits were given piperalin at doses of 0, 50, 150 or 450 mg/kg/day. No systemic toxicity was observed and the NOEL was greater than 450 mg/kg/day (MRID 40509301).

Other subchronic studies were waived for this case.

c. Developmental Toxicity

In a developmental toxicity study, CD rats were administered doses of 0, 20, 100 or 500 mg/kg/day of piperalin on gestation days 6-15 by gavage. The maternal NOEL was 20 mg/kg/day. The maternal LOEL was 100 mg/kg/day, based on excessive salivation, soiled fur, decreased body weight gain and decreased food consumption. The developmental NOEL was 100 mg/kg/day. The developmental LOEL was 500 mg/kg/day, based on decreased fetal body weight (MRID 40584901).

d. Mutagenicity

An Ames mutagenicity test with <u>Salmonella</u> typhimurium strains TA1535, TA1537, TA98 and TA100, as well as <u>Escherichia coli</u> strain WP2 uvrA-, found piperalin was not mutagenic (MRID 40503203). A mouse lymphoma forward mutation study was negative (MRID 40503202). Additional information is required, as confirmation, on a third mutagenicity test, an <u>in vivo</u> cytogenetics assay using either a) metaphase analysis (aberrations) or b) micronucleus assay.

2. Exposure Assessment

a. Occupational and Residential

An occupational and/or residential exposure assessment is required for an active ingredient if (1) certain toxicological criteria are triggered <u>and</u> (2) there is potential exposure to mixers, loaders, or applicators during use or to persons entering treated sites after application is complete. The Agency has determined that an exposure assessment is not required for piperalin since the toxicology criteria are not triggered.

3. Risk Assessment

a. Occupational and Residential

Even though there can be significant exposure, the toxicological end-points do not meet the triggers for the requirement of exposure data, and the exposure will be minimized by using appropriate label precautions.

C. Environmental Assessment

1. Environmental Fate

At this time, data requirements in the environmental fate guidelines are not fulfilled. Information is needed to confirm the major degradates of piperalin. The Agency has sufficient data for a <u>qualitative</u> environmental fate assessment of piperalin.

a. Environmental Chemistry, Fate and Transport

(1) Hydrolysis

Based on available hydrolysis data, piperalin hydrolyzes very rapidly at pH 9 (half-life of 4.8 hours), forming 2 degradates: DCBA or dichlorobenzoic acid and 3-(2-methylpiperidino)propyl alcohol. At pH 7 and 5, the half-lives were 16.4 days and 714 days, respectively.

The submitted study provides supplemental information, only high pressure liquid chromatography (HPLC) was used to identify compounds, with no confirmatory method, and it appears as if a major degradate, 3-(2-methylpiperidino)propyl alcohol, was not analyzed. (MRID# 404075-01)

(2) Aerobic soil metabolism

Based on a supplemental aerobic soil metabolism study, microbially-mediated hydrolysis, in addition to chemical hydrolysis, was the most significant degradative process which occurred. The rate of hydrolysis appears to be catalyzed by a non-sterile environment, because the half-life of piperalin in the hydrolysis experiment at pH 5 was 714 days but only 96-100 days in an Indiana sandy loam soil of pH 5.5.

For the carbonyl labelled portion of the aerobic soil metabolism study, one of the two major hydrolytic degradates, DCBA, reached a maximum of 21% of applied ¹⁴C-radioactivity on day 14 of the 180 day study. Apparently, DCBA further degraded because ¹⁴CO₂ levels kept increasing throughout the study, reaching a maximum of 48.5% of the applied on day 180 (last day of study). Parent steadily declined from 87.4% on day 0 to 20% on day 180.

For the propyl labelled portion of the aerobic soil metabolism study, the other major hydrolytic degradate, 3-(2-methylpiperi-dino)propyl alcohol, reached a maximum of 10.7% of the applied radioactivity on day 3, then declined to 2.9% by day 180. This degradate

apparently further degraded, because ${}^{14}CO_2$ levels kept increasing throughout the study, reaching a maximum of 16.5% of applied radioactivity on day 180. Parent steadily declined, from 91% of applied on day 0 to 24.9% day 180.

The submitted study provides supplemental information, only thin layer chromatography (TLC) was used to identify degradates and no confirmatory method of analysis was done. This study may be upgradeable if confirmatory information is provided, which is consistent with reported compound identities and levels determined by TLC analysis. (MRID# 41425201)

(3) Anaerobic soil metabolism

Based on supplemental anaerobic soil metabolism data, the most significant process that occurred in an Indiana sandy loam soil incubated aerobically for 21 days, followed by 60 days' anaerobic incubation, was microbially-mediated hydrolysis (in addition to chemical hydrolysis). The anaerobic soil half-life of piperalin was 33.8 and 38.1 days for the carbonyl- and propyl-labelled piperalin, respectively.

For the carbonyl portion of the anaerobic soil metabolism study, parent decreased over time, from 64% of the total ¹⁴C-radioactivity applied on day 0 (beginning of anaerobic conditions) to 19% on day 60. Consistent with this, levels of 1 of the 2 major hydrolysis degradates, DCBA, increased with time, from 16% on day 0 to 58% on day 60. Unextractable soil radioactivity remained relatively constant (16% on day 0 and 20% on day 60).

For the propyl portion of the anaerobic soil metabolism study, parent decreased over the 60 day anaerobic period, from 60% of the total ¹⁴C found in zero day soil samples, to 20% on day 60, while the other major hydrolysis product, 3-(2-methylpiperidino)propyl alcohol, increased from 3.7% of the applied to 14% by day 60. Non-extractable ¹⁴C remained relatively constant (15.3% on day 0 and 18.7% on day 60).

The submitted study provides supplemental information, only TLC was used to identify metabolites and no confirmatory method of analysis was used. This study may be upgradeable if confirmatory information is provided which is consistent with reported compound identities and levels determined by TLC analyses. (MRID# 41425202)

(4) Leaching and adsorption/desorption

Based on acceptable batch equilibrium data, piperalin is immobile, with Freundlich K_d 's of 520, 305, 62.3, 27.6, in an Indiana clay loam, Indiana loam, Indiana sandy loam, and Texas sand, respectively. Equilibrium time selected was 2 hours, based on an equilibrium study conducted for up to 50 hours. (MRID #4242930-01)

No quantitative estimates of the leaching potential for the only 2 degradates (from hydrolysis) identified in the 4 required laboratory studies can be made because none were supplied. The aged portion of the leaching data requirement (163-1) is unsatisfied. (MRID #414252-03)

b. Environmental Fate Assessment

Based on a limited usage pattern and a limited and acceptable/supplemental environmental fate data base, the only path of dissipation for piperalin appears to be two types of hydrolysis: chemical and microbially-mediated hydrolysis. Two major degradates were found: 3,4-dichlorobenzoic acid or DCBA and 3-(2-methylpiperidino)propyl alcohol. The rate of hydrolysis appears to be catalyzed by a nonsterile environment, as evidenced by half-lives reported in the aerobic and anaerobic soil metabolism studies.

A recurring problem in the hydrolysis, aerobic and anaerobic soil metabolism studies was the failure to confirm the identity of the degradates by a specific, second method. Although piperalin does not appear to be mobile in soils, quantitative information is needed for DCBA and 3-(2methylpiperidino)propyl alcohol in four soils to assess their leaching potential. These batch equilibrium studies will result in a more complete environmental fate assessment of piperalin and its degradates.

The Agency is requiring that a confirmatory method of analysis be conducted on the aged portion of the leaching and adsorption/desorption study (163-1) to identify the major degradates of piperalin.

If the identity of the major degradates are not confirmed by the aged portion of the leaching and adsorption/desorption study then the Agency may require additional data for the hydrolysis study (161-1), the aerobic soil metabolism study (162-1) and the anaerobic soil metabolism study (162-2).

2. Ecological Effects

a. Ecological Effects Data

The ecotoxicological data base is adequate to characterize the toxicity of piperalin to nontarget terrestrial and aquatic organisms when used as labeled "For Use Only in Commercial Greenhouses".

(1) Terrestrial Data

In order to establish the toxicity of piperalin to birds, the following tests are required using the technical grade material: one avian single-dose oral (LD_{50}) study on one species (preferably mallard or bobwhite quail); two subacute dietary studies (LC_{50}) on one species of waterfowl (preferably the mallard duck) and one species of upland game bird (preferably bobwhite quail or ring-necked pheasant).

A honey bee acute contact LD_{50} study is required if the proposed use will result in honey bee exposure.

(a) Avian Acute Toxicity

There is one avian toxicity study available, the dietary study listed below. This was determined to be sufficient for fulfilling the avian testing requirements.

(b) Avian Subacute Dietary Toxicity

Avian Subacute Dietary Toxicity Findings										
Species	% Test Material	LC ₅₀	Conclusions							
Bobwhite Quail	99%	> 5,380 ppm	practically nontoxic							

On a subacute dietary basis, piperalin is practically non-toxic to birds. One study on the bobwhite quail produced $LC_{50} > 5,380$ ppm. (MRID #404075-02)

(c) Avian Reproduction

Avian reproduction studies are required when birds may be exposed repeatedly or continuously through persistence, bioaccumulation, or multiple applications, or if mammalian reproduction tests indicate reproductive hazard. No avian reproduction testing was required for the greenhouse uses of piperalin.

(2) Aquatic Data

(a) Freshwater Fish Toxicity

In order to establish the toxicity of a pesticide to freshwater fish, the minimum data required on the technical grade of the active ingredient are two freshwater fish toxicity studies. One study should use a coldwater species (preferably the rainbow trout), and the other should use a warmwater species (preferably the bluegill sunfish).

Freshwater Fish Acute Toxicity Findings										
Species % Test Mater (TGAI)		LC ₅₀	Conclusions							
Bluegill sunfish	99.2%	0.77mg ai/L	highly toxic							

The results of the 96-hour acute toxicity study indicates that piperalin is highly toxic to fish. (MRID #430122-01)

(b) Freshwater Invertebrate Toxicity

The minimum testing required to assess the hazard of a pesticide is a freshwater aquatic invertebrate toxicity test, preferably using first instar *Daphnia magna* or early instar amphipods, stoneflies, mayflies, or midges.

Freshwater Invertebrate Toxicity Findings									
Species	% Test Material (TGAI)	EC ₅₀	Conclusions						
Daphnia magna	99%	1.89mg ai/L	moderately toxic						

There is sufficient information to characterize piperalin as moderately toxic to aquatic invertebrates. (MRID #404075-04)

(3) Non-Target Insects Data

The minimum data required to establish the acute toxicity to honey bees is an acute contact LD_{50} study with the technical material. Although beneficial insect testing was not required, honey bee toxicity data was available.

b. Ecological Effects Risk Assessment

(1) **Risk to Terrestrial Animals**

Avian and mammalian species will not be significantly exposed to piperalin through the consumption of insect and plant food material containing residues of the chemical. The criterion for the determination of hazard and indication of possibly significant risk from exposure for acute avian and mammalian species is a value greater than or equal to 0.5 for the quotient of the preliminary estimated environmental concentration (EEC) divided by the lowest LD_{50} value for birds and mammals. This is known as the risk quotient (RQ).

Acute and Dietary $RQ = EEC/LD_{50}$ or $EEC/LC_{50} > or = 0.5$ for birds and mammals

Based on the available acute toxicity data, piperalin is practically non-toxic to birds. In addition, no significant exposure is expected from the greenhouse use of this chemical.

(2) **Risk to Aquatic Animals**

Based on the available acute toxicity data, piperalin is highly toxic to fish and moderately toxic to aquatic invertebrates. Exposure to nontarget fish and aquatic invertebrates is not expected to occur from the proposed use of the chemical. Labeling statements are currently used regarding environmental hazards from applying the product or disposing of it in water. No significant risks are expected from the greenhouse use of this chemical.

(3) Risk to Endangered Species

For endangered avian and mammalian species the risk quotient is a value greater than or equal to 0.1. For endangered aquatic vertebrate and invertebrate species, the risk quotient is 0.05.

- $RQ = EEC/LC_{50} > or = 0.1$ for endangered birds and mammals, the
- $RQ = EEC/LC_{50} > or = 0.05$ for endangered aquatic animals, and the
- $RQ = EEC/EC_{25}$ and the $EEC/EC_{50} > or = 1$ for terrestrial, semi-aquatic and aquatic plants.

No significant risks to endangered species are expected from the greenhouse use of piperalin.

IV. RISK MANAGEMENT AND REREGISTRATION DECISION

A. Determination of Eligibility

Section 4(g)(2)(A) of FIFRA calls for the Agency to determine, after submission of relevant data concerning an active ingredient, whether products containing the active ingredients are eligible for reregistration. The Agency has previously identified and required the submission of the generic (i.e. active ingredient specific) data required to support reregistration of products containing piperalin active ingredients. The Agency has completed its review of these generic data, and has determined that the data are sufficient to support reregistration of all products containing piperalin. Appendix B identifies the generic data requirements that the Agency reviewed as part of its determination of reregistration eligibility of piperalin, and lists the submitted studies that the Agency found acceptable.

The data identified in Appendix B were sufficient to allow the Agency to assess the registered uses of piperalin and to determine that piperalin can be used without resulting in unreasonable adverse effects to humans and the environment. The Agency therefore finds that all products containing piperalin as the active ingredient are eligible for reregistration. The reregistration of particular products is addressed in Section V of this document.

The Agency made its reregistration eligibility determination based upon the target data base required for reregistration, the current guidelines for conducting acceptable studies to generate such data and the data identified in Appendix B. Although the Agency has found that all uses of piperalin are eligible for reregistration, it should be understood that the Agency may take appropriate regulatory action, and/or require the submission of additional data to support the registration of products containing piperalin, if new information comes to the Agency's attention or if the data requirements for registration (or the guidelines for generating such data) change.

1. Eligibility Decision

Based on the reviews of the generic data for the active ingredients piperalin, the Agency has sufficient information on the health effects of piperalin and on its potential for causing adverse effects in fish and wildlife and the environment. Therefore, the Agency concludes that products containing piperalin for all uses are eligible for reregistration.

The Agency has determined that piperalin products, labeled and used as specified in this Reregistration Eligibility Decision, will not pose unreasonable risks or adverse effects to humans or the environment.

2. Eligible and Ineligible Uses

The Agency has determined that all currently registered uses of piperalin are eligible for reregistration.

B. Regulatory Position

The following is a summary of the regulatory positions and rationales for piperalin. Where labeling revisions are imposed, specific language is set forth in Section V of this document.

1. Endangered Species Statement

Currently, the Agency is developing a program ("The Endangered Species Protection Program") to identify all pesticides whose use may cause adverse impacts on endangered and threatened species and to implement mitigation measures that will eliminate the adverse impacts. The program would require use modifications or a generic product label statement, requiring users to consult county-specific bulletins. These bulletins would provide information about specific use restrictions to protect endangered and threatened species in the county. Consultations with the Fish and Wildlife Service will be necessary to assess risks to newly listed species or from proposed new uses.

The Agency plans to publish a description of the Endangered Species Program in the Federal Register in 1994 and by 1995 have enforceable county-specific bulletins available. Because the Agency is taking this approach for protecting endangered and threatened species, it is not imposing label modifications at this time through the RED. Rather, any requirements for product use modifications will occur in the future under the Endangered Species Protection Program.

V. ACTIONS REQUIRED BY REGISTRANTS

This section specifies the data requirements and responses necessary for the reregistration of both manufacturing-use and end-use products.

A. Manufacturing-Use Products

1. Additional Generic Data Requirements

The generic data base supporting the reregistration of piperalin for the above eligible uses has been reviewed and determined to be substantially complete.

For the toxicology data base assessment additional information is required, as confirmatory, on an <u>in vivo</u> cytogenetics assay using either a) metaphase analysis (aberrations) or b) micronucleus assay.

In addition, in order to assess the leaching potential of the only two major hydrolytic degradates identified in the required laboratory studies, quantitative information (preferably in batch equilibrium form) is needed for DCBA and 3-(2methylpiperidino)propyl alcohol in four soils (163-1). The aged portion of the leaching adsorption/desorption data requirement is required.

B. End-Use Products

1. Additional Product-Specific Data Requirements

Section 4(g)(2)(B) of FIFRA calls for the Agency to obtain any needed productspecific data regarding the pesticide after a determination of eligibility has been made. The product specific data requirements are listed in Appendix G, the Product Specific Data Call-In Notice.

Registrants must review previous data submissions to ensure that they meet current EPA acceptance criteria (Appendix F; Attachment E) and if not, commit to conduct new studies. If a registrant believes that previously submitted data meet current testing standards, then study MRID numbers should be cited according to the instructions in the Requirement Status and Registrants Response Form provided for each product.

2. Labeling Requirements for End-Use Products

Worker Protection Standard

Any product whose labeling reasonably permits use in the production of an agricultural plant on any farm, forest, nursery, or greenhouse must comply with the labeling requirements of PR Notice 93-7, "Labeling Revisions Required by the Worker Protection Standard (WPS), and PR Notice 93-11, "Supplemental Guidance for PR Notice 93-7, which reflect the requirements of EPA's labeling regulations for worker protection statements (40 CFR part 156, subpart K). These labeling revisions are necessary to implement the Worker Protection Standard for Agricultural Pesticides (40 CFR part 170) and must be completed in accordance with, and within the deadlines specified in, PR Notices 93-7 and 93-11. Unless otherwise specifically directed in this RED, all statements required by PR Notices 93-7 and 93-11 are to be on the product label exactly as instructed in those notices.

After April 21, 1994, except as otherwise provided in PR Notices 93-7 and 93-11, all products within the scope of those notices must bear WPS PR Notice

complying labeling when they are distributed or sold by the primary registrant or any supplementally registered distributor.

After October 23, 1995, except as otherwise provided in PR Notices 93-7 and 93-11, all products within the scope of those notices must bear WPS PR Notice complying labeling when they are distributed or sold by any person.

Personal Protective Equipment for Mixer/Loader/Applicators

For each end-use product, PPE requirements for pesticide handlers will be set during reregistration in one of two ways:

1. If EPA has no special acute or other adverse concerns about an active ingredient, the PPE for pesticide handlers will be established based on the acute toxicity of the end-use product. For occupational-use products, PPE will be established using the process described in PR Notice 93-7 or more recent EPA guidelines.

2. If EPA has special concerns about an active ingredient due to very high acute toxicity or to certain non-acute effects, such as delayed effects (cancer, developmental toxicity, reproductive effects, etc):

-the Agency may establish in the RED minimum or "baseline" handler PPE requirements for that active ingredient that pertain to all or most occupational end-use products containing that active ingredient.

-these minimum PPE requirements must be compared with the PPE that would be designated on the basis of the acute toxicity of each end-use product, and

-the more stringent choice for each type of PPE (i.e., bodywear, hand protection, footwear, eyewear, etc.) must be placed on the label of the end-use product.

There are no special toxicological concerns about piperalin that warrant the establishment of active-ingredient-based PPE requirements for pesticide handlers.

Restricted Entry Interval

Under the Worker Protection Standard (WPS), interim restricted entry intervals (REI) for all uses within the scope of the WPS are established based on the acute toxicity of the active ingredient. The toxicity categories of the active ingredient for acute dermal toxicity, eye irritation potential, and skin irritation potential are used to determine the interim WPS REI. If one or more of the three acute toxicity effects are in toxicity category I, the interim WPS REI is established at 48 hours. If none of the

acute toxicity effects are in category I, but one or more of the three is classified as category II, the interim WPS REI is established at 24 hours. If none of the three acute toxicity effects are in category I or II, the interim WPS REI is established at 12 hours. A 48-hour REI is increased to 72 hours when an organophosphate pesticide is applied outdoors in arid areas. In addition, the WPS specifically retains two types of REI's established by the Agency prior to the promulgation of the WPS: product-specific

REI's established on the basis of adequate data and interim REI's that are longer than those that would be established under the WPS.

Implementation of the WPS (through PR Notice 93-7) in 1993 established a 24hour interim REI on piperalin products, because data available at that time indicated that piperalin was in toxicity category II for skin irritation potential. In reviewing the data submitted for reregistration, EPA determined that piperalin should be classified as toxicity category III for skin irritation potential. EPA has decided that all WPS uses of piperalin should have a 12-hour REI, since piperalin is classified as category III for eye irritation potential and skin irritation potential and as category IV for acute dermal toxicity, and EPA has no special concerns about other adverse effects.

Early Entry Personal Protective Equipment

Personal protective equipment (PPE) requirements for persons who must enter areas that remain under a restricted-entry interval are based on the toxicity concerns about the active ingredient. The requirements are set in one of two ways.

1. If EPA has no special concerns about the acute or other adverse effects of an active ingredient, it establishes the early-entry PPE requirements based on the acute dermal toxicity, skin irritation potential, and eye irritation potential of the active ingredient.

2. If EPA has special concerns about an active ingredient due to very high acute toxicity or to certain other adverse effects, such as allergic effects or delayed effects (cancer, developmental toxicity, reproductive effects, etc), it may establish early-entry PPE requirements that are more stringent than would be established otherwise.

Since piperalin is classified as category III for eye irritation potential and skin irritation potential and category IV for acute dermal toxicity, and EPA has no special concerns about other adverse effects, the PPE required for early entry is coveralls, chemical-resistant gloves, shoes, and socks.

Environmental Hazard Labeling Statement

This product is toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

C. Existing Stocks

Registrants may generally distribute and sell products bearing old labels/labeling for 26 months from the date of the issuance of this Reregistration Eligibility Decision (RED). Persons other than the registrant may generally distribute or sell such products for 50 months from the date of the issuance of this RED. However, existing stocks time frames will be established case-by-case, depending on the number of products involved, the number of label changes, and other factors. Refer to "Existing Stocks of Pesticide Products; Statement of Policy"; Federal Register, Volume 56, No. 123, June 26, 1991.

The Agency has determined that registrants may distribute and sell piperalin [3-(2methylpiperdino)propyl 3,4-dichlorobenzoate] products bearing old labels/labeling for 26 months from the date of issuance of this RED. Persons other than the registrant may distribute or sell such products for 50 months from the date of the issuance of this RED. Registrants and persons other than registrants remain obligated to meet pre-existing Agency imposed label changes and existing stocks requirements applicable to products they sell or distribute.

VI. APPENDICES

APPENDIX A. Table of Use Patterns Subject to Reregistration

SITE Application Type, Application Form(s	Min. Appl.	Max. Appl. Soil	Max.	Maximum Dose Min. Restr.	Geographic Limitations	Use
Timing, Application Equipment)	Rate (AI un-	Rate (AI Tex.	Apps	/crop cycle Interv Entry	Allowed Disallow	d Limitations
Surface Type (Antimicrobial only) & Effica-	less noted	unless noted Max.	@ Max	or /year (days) Interv		Codes
cy Influencing Factor (Antimicrobial only)	otherwise)	otherwise) Dose	Rate	[day(s)]	

USES ELIGIBLE FOR REREGISTRATION

NON-FOOD/NON-FEED

)					
ORNAMENTAL HERBACEOUS PLANTS		Use Group: GREENHOUSE NON	-FOOD CROP		
Spray., Foliar., Sprayer.	SC/L NA	UC * NS	NS AN	NS	C46
ORNAMENTAL WOODY SHRUBS AND VINES		Use Group: GREENHOUSE NON	-FOOD CROP		
Spray., Foliar., Sprayer.	SC/L NA	UC * NS	NS AN	NS	C46

LEGEND

HEADER ABBREVIATIONS Max. Apps @ Max Rate : Maximum number of Applications at Maximum Dosage Rate Min. Interv (days) : Minimum Interval between Applications (days) Restr. Entry Interv (days) : Restricted Entry Interval (days)

SOIL TEXTURE FOR MAX APP. RATE

- * : Non-specific
- C : Coarse
- M : Medium
- F : Fine
- 0 : Others

FORMULATION CODES

SC/L : SOLUBLE CONCENTRATE/LIQUID

ABBREVIATIONS

AN : As Needed

- NA : Not Applicable
- NS : Not Specified (on label)
- UC : Unconverted due to lack of data (on label), or with one of following units: bag, bait, bait block, bait pack, bait station, bait station(s), block, briquet, briquets, bursts, cake, can, canister, capsule, cartridges, coil, collar, container, dispenser, drop, eartag, grains, lure, pack, packet, packets, pad, part, parts, pellets, piece, pieces, pill, pumps, sec, sec burst, sheet, spike, stake, stick, strip, tab, tablet, tablets, tag, tape, towelette, tray, unit, --

APPLICATION RATE

- DCNC : Dosage Can Not be Calculated
- No Calc : No Calculation can be made
- W : PPM calculated by weight
- V : PPM Calculated by volume
- cwt : Hundred Weight

nnE-xx : nn times (10 power -xx); for instance, "1.234E-04" is equivalent to ".0001234"

USE LIMITATIONS CODES

C46 : Do not apply through any type of irrigation system.

* NUMBER IN PARENTHESES REPRESENTS THE NUMBER OF TIME UNITS (HOURS, DAYS, ETC.) DESCRIBED IN THE LIMITATION.

APPENDIX B. Table of the Generic Data Requirements and Studies Used to Make the Reregistration Decision

GUIDE TO APPENDIX B

Appendix B contains listings of data requirements which support the reregistration for active ingredients within the case Piperalin covered by this Reregistration Eligibility Decision Document. It contains generic data requirements that apply to Piperalin in all products, including data requirements for which a "typical formulation" is the test substance.

The data table is organized in the following format:

1. <u>Data Requirement</u> (Column 1). The data requirements are listed in the order in which they appear in 40 CFR Part 158. the reference numbers accompanying each test refer to the test protocols set in the Pesticide Assessment Guidelines, which are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 (703) 487-4650.

2. <u>Use Pattern</u> (Column 2). This column indicates the use patterns for which the data requirements apply. The following letter designations are used for the given use patterns:

- A Terrestrial food
- B Terrestrial feed
- C Terrestrial non-food
- D Aquatic food
- E Aquatic non-food outdoor
- F Aquatic non-food industrial
- G Aquatic non-food residential
- H Greenhouse food
- I Greenhouse non-food
- J Forestry
- K Residential
- L Indoor food
- M Indoor non-food
- N Indoor medical
- O Indoor residential

3. <u>Bibliographic citation</u> (Column 3). If the Agency has acceptable data in its files, this column lists the identifying number of each study. This normally is the Master Record Identification (MRID) number, but may be a "GS" number if no MRID number has been assigned. Refer to the Bibliography appendix for a complete citation of the study.

APPENDIX B

Data Supporting Guideline Requirements for the Reregistration of Piperalin

REQUIREMENT		USE PATTERN	CITATION(S)
PRODU	UCT CHEMISTRY		
61-1	Chemical Identity	ALL	93185001, 93185001C, 40478401
61-2A	Start. Mat. & Mnfg. Process	ALL	93185002, 93185002C, 41035501
61-2B	Formation of Impurities	ALL	93185002, 93185002C, 41035501, 40478401
62-1	Preliminary Analysis	ALL	93185002, 41035501
62-2	Certification of limits	ALL	93185002, 41035501
62-3	Analytical Method	ALL	93185002, 41035501
63-2	Color	ALL	93185003, 40295601
63-3	Physical State	ALL	93185003, 40295601
63-4	Odor	ALL	93185003, 40295602
63-5	Melting Point		Inapplicable
63-6	Boiling Point	ALL	93185003, 40295601
63-7	Density	ALL	93185003, 40295601
63-8	Solubility	ALL	93185003, 40295601, 40295602
63-9	Vapor Pressure	ALL	93185003, 40295601, 40295603
63-10	Dissociation Constant	ALL	93185003, 40295601
63-11	Octanol/Water Partition	ALL	93185003, 40295601, 40295604
63-12	рН	ALL	93185003, 40295601
63-13	Stability	ALL	43027701
63-17	Storage stability	ALL	40295601

REQUIR	EMENT	USE PATTERN		CITATION(S)
ECOLO	OGICAL EFFECTS			
71-1A	Acute Avian Oral - Quail/Duck	-		
71-2A	Avian Dietary - Quail	ALL	40407502	
72-2A	Invertebrate Toxicity	ALL	40407504	
141-1	Honey Bee Acute Contact	ALL	18842	
TOXIC	OLOGY			
81-1	Acute Oral Toxicity - Rat	ALL	40503201a	
81-2	Acute Dermal Toxicity - Rabbit/Rat	ALL	40503201b	
81-3	Acute Inhalation Toxicity - Rat	ALL	40503201c	
81-4	Primary Eye Irritation - Rabbit	ALL	41548701	
81-5	Primary Dermal Irritation - Rabbit	ALL	40503201b	
81-6	Dermal Sensitization - Guinea Pig	ALL	40678608	
82-1A	90-Day Feeding - Rodent	-	Waived	
82-1B	90-Day Feeding - Non-rodent	-	Waived	
82-2	21-Day Dermal - Rabbit/Rat		40509301	
82-3	90-Day Dermal - Rodent	-	Waived	
82-4	90-Day Inhalation - Rat	-	Waived	
83-3A	Developmental Toxicity - Rat	ALL	40584901	
84-2A	Gene Mutation (Ames Test)	ALL	40503203	

Data Supporting Guideline Requirements for the Reregistration of Piperalin

REQUIREMENT		USE PATTERN	CITATION(S)
84-2B	Structural Chromosomal Aberration	ALL	40503202
84-4	Other Genotoxic Effects	ALL	40503204 More information needed
ENVIR	ONMENTAL FATE		
160-5	Chemical Identity		93185001, 93185001C, 40478401
161-1	Hydrolysis	ALL	40407501 More information is needed on the identity of the degradates
162-1	Aerobic Soil Metabolism	ALL	41425201 Supplemental but upgradeable
162-2	Anaerobic Soil Metabolism	ALL	41425202 Supplemental but upgradeable
163-1	Leaching/Adsorption/Desorption	ALL	42493001 - acceptable 41425203 Aged portion unsatisfied

Data Supporting Guideline Requirements for the Reregistration of Piperalin

APPENDIX C. Citations Considered to be Part of the Data Base Supporting the Reregistration of Piperalin

GUIDE TO APPENDIX C

- 1. CONTENTS OF BIBLIOGRAPHY. This bibliography contains citations of all studies considered relevant by EPA in arriving at the positions and conclusions stated elsewhere in the Reregistration Eligibility Document. Primary sources for studies in this bibliography have been the body of data submitted to EPA and its predecessor agencies in support of past regulatory decisions. Selections from other sources including the published literature, in those instances where they have been considered, are included.
- 2. UNITS OF ENTRY. The unit of entry in this bibliography is called a "study". In the case of published materials, this corresponds closely to an article. In the case of unpublished materials submitted to the Agency, the Agency has sought to identify documents at a level parallel to the published article from within the typically larger volumes in which they were submitted. The resulting "studies" generally have a distinct title (or at least a single subject), can stand alone for purposes of review and can be described with a conventional bibliographic citation. The Agency has also attempted to unite basic documents and commentaries upon them, treating them as a single study.
- 3. IDENTIFICATION OF ENTRIES. The entries in this bibliography are sorted numerically by Master Record Identifier, or "MRID number". This number is unique to the citation, and should be used whenever a specific reference is required. It is not related to the six-digit "Accession Number" which has been used to identify volumes of submitted studies (see paragraph 4(d)(4) below for further explanation). In a few cases, entries added to the bibliography late in the review may be preceded by a nine character temporary identifier. These entries are listed after all MRID entries. This temporary identifying number is also to be used whenever specific reference is needed.
- 4. FORM OF ENTRY. In addition to the Master Record Identifier (MRID), each entry consists of a citation containing standard elements followed, in the case of material submitted to EPA, by a description of the earliest known submission. Bibliographic conventions used reflect the standard of the American National Standards Institute (ANSI), expanded to provide for certain special needs.
 - a Author. Whenever the author could confidently be identified, the Agency has chosen to show a personal author. When no individual was identified, the Agency has shown an identifiable laboratory or testing facility as the author. When no author or laboratory could be identified, the Agency has shown the first submitter as the author.
 - b. Document date. The date of the study is taken directly from the document. When the date is followed by a question mark, the bibliographer has deduced the date from the evidence contained in the document. When the date appears

as (19??), the Agency was unable to determine or estimate the date of the document.

- c. Title. In some cases, it has been necessary for the Agency bibliographers to create or enhance a document title. Any such editorial insertions are contained between square brackets.
- d. Trailing parentheses. For studies submitted to the Agency in the past, the trailing parentheses include (in addition to any self-explanatory text) the following elements describing the earliest known submission:
 - (1) Submission date. The date of the earliest known submission appears immediately following the word "received."
 - (2) Administrative number. The next element immediately following the word "under" is the registration number, experimental use permit number, petition number, or other administrative number associated with the earliest known submission.
 - (3) Submitter. The third element is the submitter. When authorship is defaulted to the submitter, this element is omitted.
 - (4) Volume Identification (Accession Numbers). The final element in the trailing parentheses identifies the EPA accession number of the volume in which the original submission of the study appears. The six-digit accession number follows the symbol "CDL," which stands for "Company Data Library." This accession number is in turn followed by an alphabetic suffix which shows the relative position of the study within the volume.

BIBLIOGRAPHY

MRID

CITATION

- 40295601 Handy, P. (1987) Physical and Chemical Properties of Piperalin: Laboratory Project I.D. PRH8706. Unpublished study prepared by Lilly Research Laboratories. 6 p.
- 40295602 Handy, P. (1987) Determination of the Solubility of Piperalin in Water and Several Organic Solvents: Laboratory Project I.D. PRH8704. Unpublished study prepared by Lilly Research Laboratories. 9 p.
- 40295603 Koenig, D. (1987) Vapor Pressure of Piperalin: Laboratory Project I.D. AAC8717. Unpublished study prepared by Lilly Research Laboratories. 15 p.
- 40295604 Handy, P. (1987) Determination of the Octanol/Water Partition Coefficient for Piperalin: Laboratory Project I.D. PRH8705. Unpublished study prepared by Lilly Research Laboratories. 9 p.
- 40407501 Koenig, D. (1987) Hydrolysis of Piperalin in Buffer Solution: Laboratory Project ID: AAC8718. Unpublished study prepared by Lilly Research Laboratories. 23 p.
- 40407502 Negilski, D.; Meyerhoff, R. (1987) The Toxicity of Piperalin to Juvenile Bobwhite in a Five-day Dietary Study: Laboratory Project ID: A00487. Unpublished study prepared by Lilly Research Laboratories. 38 p.
- 40407504 Negilski, D.; Grothe, D.; Mohr, R. (1987) Acute Toxicity of Piperalin to Daphnia magna in a Static-renewal Test System: Laboratory Project ID: C00887. Unpublished study prepared by Lilly Research Laboratories. 36 p.
- 40478401 Day, E.; Coghlan, M. (1987) Product Chemistry Data Relationg to Potential Formation of Halogenated Dibenzo-P-dioxin or Dibenzofuran Contaminants in Piperalin: EWD8730. 23 p.
- 40503201 Negilski, D.; Brown, G.; Markey, T. (1987) The Acute Oral, Dermal and Inhalation Toxicity and Primary Dermal Irritation of Technical Piperalin: Project ID: R-0-87, R-0-79-87. Unpublished compilation prepared by Lilly Research Laboratories. 49 p.
- 40503202 Probst, G. (1987) The Effect of Piperalin on the Induction of Forward Mutation at the Thymidine Kinase Locus of L5178Y Mouse Lymphoma Cells: Project ID: 870513MLT2967. Unpublished study prepared by Lilly Research

BIBLIOGRAPHY

CITATION

MRID

Laboratories. 37 p.

- 40503203 Probst, G. (1987) The Effect of Piperalin on the Induction of Reverse Mutations in Salmonella typhimurium and Escherichia coli Using the Ames Test: Project ID: 870420AMT2967. Unpublished study prepared by Lilly Research Laboratories. 28 p.
- 40509301 Negilski, D.; Van Pelt, C.; Torrence, T. (1988) Subchronic (21-Day) Dermal Toxicity Study in New Zealand White Rabbits with Technical Piperalin: Project ID: B01987. Unpublished study prepared by Lilly Research Laboratories. 479 p.
- 40584901 Negilski, D.; Liu, S. (1988) A Teratology Study of Piperalin (EL-211, Compound 038648) Administered Orally to CD Rats: Laboratory Project ID R13487. Unpublished study prepared by Lilly Research Laboratories. 365 p.
- 40678608 Negilski, D. (1988) A Dermal Sensitization Study of Pipron E.C., ... Containing Eight Pounds of Piperalin ... per Gallon of Formulation, in Guinea Pigs: Project ID. G01287. Unpublished study prepared by Lilly Research Laboratories. 37 p.
- 41035501 Handy, P. (1989) Manufactured Product Characterization of Technical Piperalin: Proj. ID AAC8715. Unpublished study prepared by Lilly Research Laboratories. 25 p.
- 41425201 Rainey, D. (1990) Aerobic Soil Metabolism of ¢Carbon 14 Piperalin: Lab I.D. Number ABC0430. Unpublished study prepared by DowElanco, Plant Science Chemical Development. 33 p.
- 41425202 Rainey, D. (1990) Anaerobic Soil Metabolism of ¢Carbon 14 Piperalin Lab I.D. Number: ABC0431. Unpublished study prepared by DowElanco, Plant Science Chemical Development. 32 p.
- 41425203 Saunders, D. (1990) Piperalin Aged Soil Leaching Study: Lab I.D. Number: DGS8902. Unpublished study prepared by DowElanco, Plant Science Chemical Development. 37 p.
- 41548701 Negilski, D.; Rock, G.; Weaver, D. (1990) The Acute Ocular Irritation of Piperalin (EL-211, Compound 038648) in the New Zealand White Rabbit: Lab

BIBLIOGRAPHY

MRID

CITATION

Project I.D.: B02290. Unpublished study prepared by Lilly Research Laboratories, Toxicology Div. 24 p.

- 43012201 Weinberg, J.; Kirk, H.; Miller, J.; et al. (1993) Evaluation of the Acute Toxicity of Piperalin to the Bluegill, Lepomis macrochirus Rafinesque: Lab Project Number: DECO-ES-2722. Unpublished study prepared by Dow Chemical Environmental Toxicity & Chemistry Research Lab. 27 p.
- 43027701 Jones-Jefferson, T. (1993) Determination of the Stability of Piperalin Technical Grade of Active Ingredient (TGAI): Lab Project Number: FOR93123. Unpublished study prepared by DowElanco. 11 p.
- 93185001 Environ Corp. (1990) Elanco Products Co. Phase 3 Summary of MRID 40478401. Product Chemistry Data Relating to Potential Formation of Halogenated Dibenzo-P-Dioxin or Dibenzofuran Contaminants in Piperalin, EWD8730. 24 p.
- 93185002 Environ Corp. (1990) Elanco Products Co. Phase 3 Summary of MRID 41035501. Manufactured Product Characterization of Technical Piperalin, AAC8715. Prepared by Lilly Research Laboratories. 17 p.
- 93185003 Environ Corp. (1990) Elanco Products Co. Phase 3 Summary of MRID 40295601 and Related MRIDs 40295602, 40295603, 40295604. Physical and Chemical Properties of Piperalin, PRH8706; Determination of the Solubility of Piperalin in Water and Several Organic Solvents; Vapor Pressure of Pipertalin, AAC8717; and Determination of the Octanol/ Water Partition Coefficient for Piperalin, PRH8705. 8 p.

APPENDIX D. List of Available Related Documents

The following is a list of available documents related to Piperalin. It's purpose is to provide a path to more detailed information if it is needed. These accompanying documents are part of the Administrative Record for Piperalin and are included in the EPA's Office of Pesticide Programs Public Docket.

- 1. Health and Environmental Effects Science Chapters
- 2. Detailed Label Usage Information System (LUIS) Report
- 3. Piperalin RED Fact Sheet
- 4. PR Notice 86-5 (included in this appendix)
- 5. PR Notice 91-2 (included in this appendix) pertains to the Label Ingredient Statement

APPENDIX E. PR Notices 86-5 and 91-2

PR Notice 86-5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

July 29, 1986

PR NOTICE 86-5

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

NOTICE TO PRODUCERS, FORMULATORS, DISTRIBUTORS AND REGISTRANTS

Attention: Persons responsible for Federal registration of pesticides.

Subject: Standard format for data submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and certain provisions of the Federal Food, Drug, and Cosmetic Act (FFDCA).

I. <u>Purpose</u>

To require data to be submitted to the Environmental Protection Agency (EPA) in a standard format. This Notice also provides additional guidance about, and illustrations of, the required formats.

II. <u>Applicability</u>

This PR Notice applies to all data that are submitted to EPA to satisfy data requirements for granting or maintaining pesticide registrations, experimental use permits, tolerances, and related approvals under certain provisions of FIFRA and FFDCA. These data are defined in FIFRA $\S10(d)(1)$. This Notice does <u>not</u> apply to commercial, financial, or production information, which are, and must continue to be, submitted differently under separate cover.

III. Effective Date

This notice is effective on November 1, 1986. Data formatted according to this notice may be submitted prior to the effective date. As of the effective date, submitted data packages that do not conform to these requirements may be returned to the submitter for necessary revision.

IV. <u>Background</u>

On September 26, 1984, EPA published proposed regulations in the Federal Register (49 FR 37956) which include Requirements for Data Submission (40 CFR §158.32), and Procedures for Claims of Confidentiality of Data (40 CFR §158.33). These regulations specify the format for data submitted to EPA under Section 3 of FIFRA and Sections 408 and 409 of FFDCA, and procedures which must be followed to make and substantiate claims of confidentiality. No entitlements to data confidentiality are changed, either by the proposed regulation or by this notice.

OPP is making these requirements mandatory through this Notice to gain resource-saving benefits from their use before the entire proposed regulation becomes final. Adequate lead time is being provided for submitters to comply with the new requirements.

V. <u>Relationship of this Notice to Other OPP Policy and Guidance</u>

While this Notice contains requirements for organizing and formatting submittals of supporting data, it does not address the substance of test reports themselves. "Data reporting" guidance is now under development in OPP, and will specify how the study objectives, protocol, observations, findings, and conclusions are organized and presented within the study report. The data reporting guidance will be compatible with submittal format requirements described in this Notice.

OPP has also promulgated a policy (PR Notice 86-4 dated April 15, 1986) that provides for early screening of certain applications for registration under FIFRA §3. The objective of the screen is to avoid the additional costs and prolonged delays associated with handling significantly incomplete application packages. As of the effective date of this Notice, the screen will include in its criteria for acceptance of application packages the data formatting requirements described herein.

OPP has also established a public docket which imposes deadlines for inserting into the docket documents submitted in connection with Special Reviews and Registration Standards (see 40 CFR §154.15 and §155.32). To meet these deadlines, OPP is requiring an additional copy of any <u>data</u> submitted to the docket. Please refer to Page 10 for more information about this requirement.

For several years, OPP has required that each application for registration or other action include a list of all applicable data requirements and an indication of how each is satisfied--the statement of the method of support for the application. Typically, many requirements are satisfied by reference to data previously submitted--either by the applicant or by another party. That requirement is not altered by this notice, which applies only to data <u>submitted</u> with an application.

VI. <u>Format Requirements</u>

A more detailed discussion of these format requirements follows the index on the next page, and samples of some of the requirements are attached. Except for the language of the two alternative forms of the Statement of Data Confidentiality Claims (shown in Attachment 3) which cannot be altered, these samples are illustrative. As long as the required information is included and clearly identifiable, the form of the samples may be altered to reflect the submitter's preference.

- INDEX-

		Daga	Example Page
Α.	Organization of the Submittal Package	. 3	17
в.	Transmittal Document	. 4	11
С.	Individual Studies	. 4	
	C. 1 Special Considerations for Identifying Studies .	. 5	
D.	Organization of each Study Volume	. 6	17
	D. 1 Study Title Page	. 7	12

	D. 2 Statement of Data Confidentiality Claims
	(based on FIFRA §10(d)(1)) 8
	D. 3 Confidential Attachment 8
	D. 4 Supplemental Statement of Data Confidentiality Claims (other than those based on FIFRA §10(d)(1)) 8
	D. 5 Good Laboratory Practice Compliance Statement 9
Е.	Reference to Previously Submitted Data 9
F.	Physical Format Requirements & Number of Copies 9
G.	Special Requirements for Submitting Data to the Docket 10

13 15

14 16

A. <u>Organization of Submittal Package</u>

A "submittal package" consists of all studies submitted at the same time for review in support of a single regulatory action, along with a transmittal document and other related administrative material (e.g. the method of support statement, EPA Forms 8570-1, 8570-4, 8570-20, etc.) as appropriate.

Data submitters must organize each submittal package as described in this Notice. The transmittal and any other administrative material must be grouped together in the first physical volume. Each study included in the submittal package must then be bound separately.

Submitters sometimes provide additional materials that are intended to clarify, emphasize, or otherwise comment to help Product Managers and reviewers better understand the submittal.

- If such materials relate to <u>one</u> study, they should be included as an appendix to that study.

- If such materials relate to <u>more than one</u> study (as for example a summary of all studies in a discipline) or to the submittal in general, they must be included in the submittal package as a separate study (with title page and statement of confidentiality claims).

B. <u>Transmittal Document</u>

The first item in each submittal package must be a transmittal document. This document identifies the submitter or all joint submitters; the regulatory action in support of which the package is being submitted--i.e., a registration application, petition, experimental use permit (EUP), $\S3(c)(2)(B)$ data call-in, $\S6(a)(2)$ submittal, or a special review; the transmittal date; and a list of all individual studies included in the package in the order of their appearance, showing (usually by Guideline reference number) the data requirement(s) addressed by each one. The EPA-assigned number for the regulatory action (e.g. the registration, EUP, or tolerance petition number) should be included in the transmittal document as well, if it is known to the submitter. See Attachment 1 for an example of an acceptable transmittal document.

The list of included studies in the transmittal of a data submittal package supporting a registration application should be subdivided by discipline, reflecting the order in which data requirements appear in 40 CFR 158.

The list of included studies in the transmittal of a data submittal package supporting a petition for tolerance or an application for an EUP should be subdivided into sections A, B, C,... of the petition or application, as defined in 40 CFR 180.7 and 158.125, (petitions) or Pesticide Assessment Guidelines, Subdivision I (EUPs) as appropriate.

When a submittal package supports a tolerance petition <u>and</u> an application for a registration or an EUP, list the petition studies first, then the balance of the studies. Within these two groups of studies follow the instructions above.

C. <u>Individual Studies</u>

A study is the report of a single scientific investigation, including all supporting analyses required for logical completeness. A study should be identifiable and distinguishable by a conventional bibliographic citation including author, date, and title. Studies generally correspond in scope to a single Guideline requirement for supporting data, with some exceptions discussed in section C.1. Each study included in a submittal package must be bound as a separate entity. (See comments on binding studies on page 9.)

Each study must be consecutively paginated, beginning from the title page as page 1. The total number of pages in the complete study must be shown on the study title page. In addition (to ensure that inadvertently separated pages can be reassociated with the proper study during handling or review) use either of the following:

- Include the total number of pages in the complete study on each page (i.e., 1 of 250, 2 of 250, ...250 of 250).

Include a company name or mark and study number on each page of the study, e g , Company Name-1986-23. Never reuse a study number for marking the pages of subsequent studies. When a single study is extremely long, binding it in multiple volumes is permissible so long as the entire study is paginated in a single series, and each volume is plainly identified by the study title and its position in the multi-volume sequence.

C.1 <u>Special Considerations for Identifying Studies</u>

Some studies raise special problems in study identification, because they address Guidelines of broader than normal scope or for other reasons.

a. <u>Safety Studies</u>. Several Guidelines require testing for safety in more than one species. In these cases each species tested should be reported as a separate study, and bound separately.

Extensive supplemental reports of pathology reviews, feed analyses, historical control data, and the like are often associated with safety studies. Whenever possible these should be submitted with primary reports of the study, and bound with the primary study as appendices. When such supplemental reports are submitted independently of the primary report, take care to fully identify the primary report to which they pertain.

Batteries of acute toxicity tests, performed on the same end use product and covered by a single title page, may be bound together and reported as a single study.

b. <u>Product Chemistry Studies</u>. All product chemistry data within a submittal package submitted in support of an end-use product produced from registered manufacturing-use products should be bound as a single study under a single title page.

Product chemistry data submitted in support of a technical product, other manufacturing-use product, an experimental use permit, an import tolerance petition, or an end-use product produced from unregistered source ingredients, should be bound as a single study for each Guideline <u>series</u> (61, 62, and 63) for conventional pesticides, or for the equivalent subject range for biorational pesticides. The first of the three studies in a complete product chemistry submittal for a biochemical pesticide would cover Guidelines 151-10, 151-11, and 151-12; the second would cover Guidelines 151-13, 151-15, and 151-16; the third would cover Guideline 151-17. The first study for a microbial pesticide would cover Guidelines 151-20, 151-21, and 151-22; the second would cover Guidelines 151-23 and 151-25; the third would cover Guideline 151-26.

Note particularly that product chemistry studies are likely to contain Confidential Business Information as defined in FIFRA $\S10(d)(1)(A)$, (B), or (C), and if so must be handled as described in section D.3. of this notice.

c. <u>Residue Chemistry Studies</u>. Guidelines 171-4, 153-3, and 153-4 are extremely broad in scope; studies addressing residue chemistry requirements must thus be defined at a level below that of the Guideline code. The general principle, however, of limiting a study to the report of a single investigation still applies fully. Data should be treated as a single study and bound separately for each analytical method, each report of the nature of the residue in a single crop or animal species, and for each report of the magnitude of residues resulting from treatment of a single crop or from processing a single crop. When more than one commodity is derived from a single crop (such as beet tops and beet roots) residue data on all such commodities should be reported as a single crop, all such trials should be reported as a single study.

D. <u>Organization of Each Study Volume</u>

Each complete study must include all applicable elements in the list below, in the order indicated. (Also see Page 17.) Several of these elements are further explained in the following paragraphs. Entries in the column headed "example" cite the page number of this notice where the element is illustrated.

<u>Element</u>	<u>When Required</u>	<u>Example</u>
Study Title Page	Always	Page 12
Statement of Data Confidentiality Claims	One of the two alternative forms of this statement is always required	Page 13
Certification of Good Laboratory Practice	If study reports laboratory work subject to GLP require- ments	Page 16
Flagging statements	For certain toxicology studie flagging requirements are fin	s (When alized.)
Body of Study	Always - with an English lang translation if required.	uage
Study Appendices	At submitter's option	
Cover Sheet to Confi- dential Attachment	If CBI is claimed under FIFRA §10(d)(1)(A), (B), or (C)	
CBI Attachment	If CBI is claimed under FIFRA §10(d)(1)(A), (B), or (C)	Page 15
Supplemental Statement of Data Confidentiality Claims	Only if confidentiality is claimed on a basis other than FIFRA §10(d)(1)(A), (B), or (

D.1. Title Page

A title page is always required for each submitted study, published or unpublished. The title page must always be freely releasable to requestors; **DO NOT INCLUDE CBI ON THE TITLE PAGE**. An example of an acceptable title page is on page 12 of this notice. The following information must appear on the title page:

a. <u>Study title</u>. The study title should be as descriptive as possible It must clearly identify the substance(s) tested and correspond to the name of the data requirement as it appears in the Guidelines.

b. <u>Data requirement addressed</u>. Include on the title page the Guideline number(s) of the specific requirement(s) addressed by the study.

c. <u>Author(s)</u>. Cite only individuals with primary intellectual responsibility for the content of the study. Identify them plainly as authors, to distinguish them from the performing laboratory, study sponsor, or other names that may also appear on the title page.

d. <u>Study Date</u>. The title page must include a single date for the study. If parts of the study were performed at different times, use only the date of the latest element in the study.

e. <u>Performing Laboratory Identification</u>. If the study reports work done by one or more laboratories, include on the title page the name and address of the performing laboratory or laboratories, and the laboratory's internal project number(s) for the work. Clearly distinguish the laboratory's project identifier from any other reference numbers provided by the study sponsor or submitter.

f. <u>Supplemental Submissions</u>. If the study is a commentary on or supplement to another previously submitted study, or if it responds to EPA questions raised with respect to an earlier study, include on the title page elements a. through d. for the previously submitted study, along with the EPA Master Record Identifier (MRID) or Accession number of the earlier study if you know these numbers. (Supplements submitted in the same submittal package as the primary study should be appended to and bound with the primary study. Do not include supplements to more than one study under a single title page).

g. <u>Facts of Publication</u>. If the study is a reprint of a published document, identity on the title page all relevant facts of publication, such as the journal title, volume, issue, inclusive page numbers, and publication date.

D.2. Statements of Data Confidentiality Claims Under FIFRA $\ensuremath{\S{10(d)(1)}}$.

Each submitted study must be accompanied by one of the two alternative forms of the statement of Data Confidentiality Claims specified in the proposed regulation in §158.33 (b) and (c) (See Attachment 3). These statements apply only to claims of data confidentiality based on FIFRA (0)(1)(A), (B), or (C). Use the appropriate alternative form of the statement either to assert a claim of (0)(1)(A), (B), or (C). Use to waive such a claim ((158.33)(C)). In either case, the statement must be signed and dated, and must include the typed name and title of the official who signs it. Do not make CBI claims with respect to analytical methods associated with petitions for tolerances or emergency exemptions (see NOTE Pg 13).

D.3. Confidential Attachment

If the claim is made that a study includes confidential business information as defined by the criteria of FIFRA §10(D)(1)(A), (B), or (C) (as described in D.2. above) all such information must be excised from the body of the study and confined to a separate study-specific Confidential Attachment. Each passage of CBI so isolated must be identified by a reference number cited within the body of the study at the point from which the passage was excised (See Attachment 5).

The Confidential Attachment to a study must be identified by a cover sheet fully identifying the parent study, and must be clearly marked "Confidential Attachment." An appropriately annotated photocopy of the parent study title page may be used as this cover sheet. Paginate the Confidential Attachment separately from the body of the study, beginning with page 1 of X on the title page. Each passage confined to the Confidential Attachment must be associated with a specific cross reference to the page(s) in the main body of the study on which it is cited, and with a reference to the applicable passage(s) of FIFRA §10(d)(1) on which the confidentiality claim is based.

D.4. <u>Supplemental</u> Statement of Data Confidentiality Claims (See Attachment 4)

If you wish to make a claim of confidentiality for any portion of a submitted study <u>other than</u> described by FIFRA §10(d) (1)(A), (B), or (C), the following provisions apply:

- The specific information to which the claim applies must be clearly marked in the body of the study as subject to a claim of confidentiality.

- A Supplemental Statement of Data Confidentiality Claims must be submitted, identifying each passage claimed confidential and describing in detail the basis for the claim. A list of the points to address in such a statement is included in Attachment 4 on Pg 14.

- The Supplemental Statement of Data Confidentiality Claims must be signed and dated and must include the typed name and title of the official who signed it.

D.5. Good Laboratory Practice Compliance Statement

This statement is required if the study contains laboratory work subject to GLP requirements specified in 40 CFR 160. Samples of these statements are shown in Attachment 6.

E. <u>Reference to Previously Submitted Data</u>

DO NOT RESUBMIT A STUDY THAT HAS PREVIOUSLY BEEN SUBMITTED FOR ANOTHER PURPOSE unless EPA specifically requests it. A copy of the title page plus the MRID number (if known) is sufficient to allow us to retrieve the study immediately for review. This prevents duplicate entries in the Agency files, and saves you the cost of sending more copies of the study. References to previously submitted studies should <u>not</u> be included in the transmittal document, but should be incorporated into the statement of the method of support for the application.

F. <u>Physical Format Requirements</u>

All elements in the data submittal package must be on uniform 8 1/2 by 11 inch white paper, printed on one side only in black ink, with high contrast and good resolution. Bindings for individual studies must be secure, but easily removable to permit disassembly for microfilming. Check with EPA for special instructions before submitting data in any medium other than paper, such as film or magnetic media.

Please be particularly attentive to the following points:

- Do not include frayed or torn pages.
- Do not include carbon copies, or copies in other than black ink.
- Make sure that photocopies are clear, complete, and fully readable.
- Do not include oversize computer printouts or fold-out pages.
- Do not bind any documents with glue or binding tapes.
- Make sure that all pages of each study, including any attachments or appendices, are present and in correct sequence.

<u>Number of Copies Required</u> - All submittal packages except those associated with a Registration Standard or Special Review (See Part G below) must be provided ln <u>three</u> complete, identical copies. (The proposed regulations specified two copies; three are now being required to expedite and reduce the cost of processing data into the OPP Pesticide Document Management System and getting it into review.)

G. <u>Special Requirements for Submitting Data to the Docket</u>

Data submittal packages associated with a Registration Standard or Special Review must be provided in <u>four</u> copies, from one of which all material claimed as CBI has been excised. This fourth copy will become part of the public docket for the RS or SR case. If no claims of confidentiality are made for the study, the fourth copy should be identical to the other three. When portions of a study submitted in support of an RS or SR are claimed as CBI, the first three copies will include the CBI material as provided in section D of this notice. The following special preparation is required for the fourth copy.

- Remove the "Supplemental Statement of Data Confidentiality Claims".
- Remove the "Confidential Attachment".
- Excise from the body of the study any information you claim as confidential, even if it does not fall within the scope of FIFRA §10(d)(1)(A), (B), or (C). Do not close up or paraphrase text remaining after this excision.
- Mark the fourth copy plainly on both its cover and its title page with the phrase "Public Docket Material contains no information claimed as confidential".

V. For Further Information

For further information contact John Carley, Chief, Information Services Branch, Program Management and Support Division, (703) 305-5240.

/S/

James W. Akerman Acting Director, Registration Division

Attachment 1.	Sample Transmittal Document
Attachment 2.	Sample Title Page for a Newly Submitted Study
Attachment 3.	Sample Title Page for a Newly Submitted Study Statements of Data Confidentiality Claims
Attachment 4.	Supplemental Statement of Data Confidentiality
	Claims
Attachment 5.	Samples of Confidential Attachments
Attachment 6.	
Attachment 7.	Format Diagrams for Submittal Packages and Studies

ELEMENTS TO BE INCLUDED IN THE TRANSMITTAL DOCUMENT*

1. Name and address of submitter (or all joint submitters**)

⁺ Smith Chemical Corporation 1234 West Smith Street Cincinnati, OH 98765	-and-	Jones Chemical Company 5678 Wilson Blvd Covington, KY 56789
---	-------	---

*Smith Chemical Corp will act as sole agent for all submitters.

2. <u>Regulatory action in support of which this package is</u> <u>submitted</u>

Use the EPA identification number (e.g. 359-EUP-67) if you know it. Otherwise describe the type of request (e.g. experimental use permit, data call-in - of xx-xx-xx date).

- 3. <u>Transmittal date</u>
- 4. <u>List of submitted studies</u>
 - Vol 1. Administrative materials forms, previous correspondence with Project Managers, and so forth.
 - Vol 2. Title of first study in the submittal (Guideline No.)
 - Vol n Title of nth study in the submittal (Guideline No.)
 - * Applicants commonly provide this information in a transmittal letter. This remains an acceptable practice so long as all four elements are included.

* Indicate which of the joint submitters is empowered to act on behalf of all joint submitters in any matter concerning data compensation or subsequent use or release of the data.

Company Official:			
	_	Name	Signature
Company	Name		
Company	Contact:		
		Name	Phone

SAMPLE STUDY TITLE PAGE FOR A NEWLY SUBMITTED STUDY

Study Title

(Chemical name) - Magnitude of Residue on Corn

Data Requirement

Guideline 171-4

<u>Author</u>

John C. Davis

Study Completed On

January 5, 1979

Performing Laboratory

ABC Agricultural Laboratories 940 West Bay Drive Wilmington, CA 39897

Laboratory Project ID

ABC 47-79

Page 1 of X (X is the total number of pages in the study)

STATEMENTS OF DATA CONFIDENTIALITY CLAIMS

1. No claim of confidentiality under FIFRA §10(d)(1)(A),(B), or (C).

STATEMENT OF NO DATA CONFIDENTIALITY CLAIMS

No claim of confidentiality is made for any information contained in this study on the basis of its falling within the scope of FIFRA 6§10(d)(1)(A), (B), or (C).
Company ______
Company Agent: _____ Typed Name ____ Date: _____
Title _____ Signature

2. Claim of confidentiality under FIFRA §10(d)(1)(A), (B), or (C).

Information claimed confidential on the basis of its falling within the scope of FIFRA §10(d)(1)(A), (B), or (C) has been removed to a confidential appendix, and is cited by cross-reference number in the body of the study.			
Company:			
Company Agent:	Typed Name	Date:	
	Title	Signature	

STATEMENT OF DATA CONFIDENTIALITY CLAIMS

NOTE: Applicants for permanent or temporary tolerances should note that it is OPP policy that no permanent tolerance, temporary tolerance, or request for an emergency exemption incorporating an analytical method, can be approved unless the applicant waives all claims of confidentiality for the analytical method. These analytical methods are published in the FDA Pesticide Analytical Methods Manual, and therefore cannot be claimed as confidential. OPP implements this policy by returning submitted analytical methods, for which confidentiality claims have been made, to the submitter, to obtain the confidentiality waiver before they can be processed.

SUPPLEMENTAL STATEMENT OF DATA CONFIDENTIALITY CLAIMS

For any portion of a submitted study that is not described by FIFRA §10(d)(1)(A), (B), or (C), but for which you claim confidential treatment on another basis, the following information must be included within a Supplemental Statement of Data Confidentiality Claims:

- Identify specifically by page and line number(s) each portion of the study for which you claim confidentiality.
- Cite the reasons why the cited passage qualifies for confidential treatment.
- Indicate the length of time--until a specific date or event, or permanently--for which the information should be treated as confidential.
- Identify the measures taken to guard against undesired disclosure of this information.
- Describe the extent to which the information has been disclosed, and what precautions have been taken in connection with those disclosures.
- Enclose copies of any pertinent determinations of confidentiality made by EPA, other Federal agencies, of courts concerning this information.
- If you assert that disclosure of this information would be likely to result in substantial harmful effects to you, describe those harmful effects and explain why they should be viewed as substantial.
- If you assert that the information in voluntarily submitted, indicate whether you believe disclosure of this information might tend to lessen the availability to EPA of similar information in the future, and if so, how.

EXAMPLES OF SEVERAL CONFIDENTIAL ATTACHMENTS

<u>Example 1.</u> (Confidential word or phrase that has been deleted from the study)

CROSS REFER	RENCE N		r is used in the study in place of the e indicated volume and page
DELETED WC	RDS OR	PHRASE: Ethylene Glycol	
PAGE	LINES	REASON FOR THE DELETION	FIFRA
REFERENCE			
6	14	Identity of Inert Ingredient	§10(d)(C)
28	25	"	"
100	19	"	"

Example 2. (Confidential paragraph(s) that have been deleted from the study)

CROSS REFE	RENCE NUMBER 5	This cross reference number is used in the study in place of the following paragraph(s) at the indicated volume and page references.		
DELETED PA	ARAGRAPH(S):			
()	
(Reproduce the deleted	paragraph(s) here)	
(-)	
PAGE	LINES REASON FO	R THE DELETION	FIFRA REFERENCE	
20.	2-17 Description of	f the quality control process	§10(d)(1)(C)	

Example 3. (Confidential pages that have been deleted from the study)

		umber is used in the study in place of the) at the indicated volume and page
PAGES	REASON FOR THE DELETION	FIFRA REFERENCE
35-41.	Description of product manufacturing process	§10(d)(1)(A)

ATTACHMENT 6.

SAMPLE GOOD LABORATORY PRACTICE STATEMENTS

Example 1.

This study meets	the requirements	for 40 CFR Part 160	
Submitter _			
Sponsor			

Example 2.

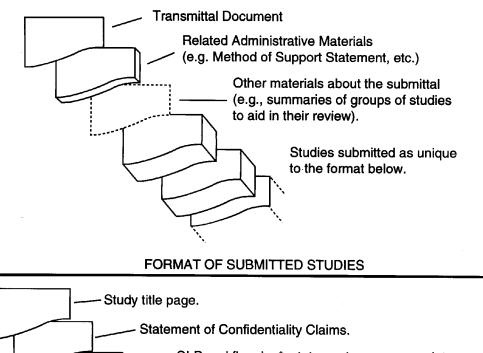
This study does not meet the requirements of 40 differs in the following ways:	CFR Part	160,	and
1			
2			
3			
Submitter			
Sponsor			
Study Director			

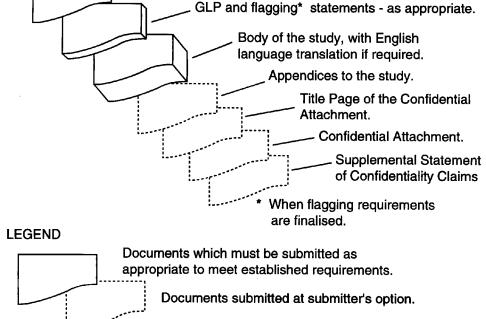
Example 3.

The submitter of this study was neither the sponsor of this study nor conducted it, and does not know whether it has been conducted in accordance with 40 CFR Part 160.	
Submitter	

ATTACHMENT 7.

FORMAT OF THE SUBMITTAL PACKAGE





PR Notice 91-2



WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

PR NOTICE 91-2

NOTICE TO MANUFACTURERS, PRODUCERS, FORMULATORS, AND REGISTRANTS OF PESTICIDES

ATTENTION: Persons Responsible for Federal Registration of Pesticide Products.

SUBJECT: Accuracy of Stated Percentages for Ingredients Statement

I. PURPOSE:

The purpose of this notice is to clarify the Office of Pesticide Program's policy with respect to the statement of percentages in a pesticide's label's ingredient statement. Specifically, the amount (percent by weight) of ingredient(s) specified in the ingredient statement on the label must be stated as the nominal concentration of such ingredient(s), as that term is defined in 40 CFR 158.153(i). Accordingly, the Agency has established the nominal concentration as the only acceptable label claim for the amount of active ingredient in the product.

II. BACKGROUND

For some time the Agency has accepted two different methods of identifying on the label what percentage is claimed for the ingredient(s) contained in a pesticide. Some applicants claimed a percentage which represented a level between the upper and the lower certified limits. This was referred to as the nominal concentration. Other applicants claimed the lower limit as the percentage of the ingredient(s) that would be expected to be present in their product at the end of the product's shelf-life. Unfortunately, this led to a great deal of confusion among the regulated industry, the regulators, and the consumers as to exactly how much of a given ingredient was in a given product. The Agency has established the nominal concentration as the only acceptable label claim for the amount of active ingredient in the product.

Current regulations require that the percentage listed in the active ingredient statement be as precise as possible reflecting good manufacturing practices 40 CFR 156.10(g)(5). The certified limits required for each active ingredient are intended to encompass any such "good manufacturing practice" variations 40 CFR 158.175(c)(3).

The upper and lower certified limits, which must be proposed in connection with a product's registration, represent the amounts of an ingredient that may legally be present 40 CFR 158.175. The lower certified limit is used as the enforceable lower limit for the product composition according to FIFRA section 12(a)(1)(C), while the nominal concentration appearing on the label would be the routinely achieved concentration used for calculation of dosages and dilutions.

The nominal concentration would in fact state the greatest degree of accuracy that is warranted with respect to actual

product composition because the nominal concentration would be the amount of active ingredient typically found in the product.

It is important for registrants to note that certified limits for active ingredients are not considered to be trade secret information under FIFRA section 10(b). In this respect the certified limits will be routinely provided by EPA to States for enforcement purposes, since the nominal concentration appearing on the label may not represent the enforceable composition for purposes of section 12(a)(1)(C).

III. REQUIREMENTS

As described below under Unit V. " COMPLIANCE SCHEDULE," all currently registered products as well as all applications for new registration must comply with this Notice by specifying the nominal concentration expressed as a percentage by weight as the label claim in the ingredient(s) statement and equivalence statements if applicable (e.g., elemental arsenic, metallic zinc, salt of an acid). In addition, the requirement for performing sample analyses of five or more representative samples must be fulfilled. Copies of the raw analytical data must be submitted with the nominal ingredient label claim. Further information about the analysis requirement may be found in the 40 CFR 158.170. All products are required to provide certified limits for each active, inert ingredient, impurities of toxicological significance(i.e., upper limit(s) only) and on a case by case basis as specified by EPA. These limits are to be **set based on representative sampling** and chemical analysis(i.e., quality control) of the product.

The format of the ingredient statement must conform to 40 CFR 156-Labeling Requirements For Pesticides and Devices.

After July 1, 1997, all pesticide ingredient StatementS must be changed to nominal concentration.

IV. PRODUCTS THAT REQUIRE EFFICACY DATA

All pesticides are required to be efficacious. Therefore, the certified lower limits may not be lower then the minimum level to achieve efficacy. This is extremely important for products which are intended to control pests which threaten the public health, e.g., certain antimicrobial and rodenticide products. Refer to 40 CFR 153.640.

In those cases where efficacy limits have been established, the Agency will not accept certified lower limits which are below that level for the shelf life of the product.

V. COMPLIANCE SCHEDULE

As described earlier, the purpose of this Notice is to make the registration process more uniform and more manageable for both the agency and the regulated community. It is the Agency's intention to implement the requirements of this notice as smoothly as possible so as not to disrupt or delay the Agency's high priority programs, i.e., reregistration, new chemical, or fast track (FIFRA section 3(c)(3)(B). Therefore, applicants/registrants are expected to comply with the requirements of this Notice as follows:

(1) Beginning July 1, 1991, all new product registrations submitted to the Agency are to comply with the requirements of this Notice.

- (2) Registrants having products subject to reregistration under FIFRA section 4(a) are to comply with the requirements of this Notice when specific products are called in by the Agency under Phase V of the Reregistration Program.
- (3) All other products/applications that are not subject to (1) and (2) above will have until July 1, 1997, to comply with this Notice. Such applications should note "Conversion to Nominal Concentrations on the application form. These types Or amendments will not be handled as "Fast Track" applications but will be handled as routine requests.

VI. FOR FURTHER INFORMATION

Contact Tyrone Aiken for information or questions concerning this notice on (703) 308-7031.

/s/ Anne E. Lindsay, Director Registration Division (H-7505C)

APPENDIX F. Combined Generic and Product Specific Data Call-In

GENERIC AND PRODUCT SPECIFIC DATA CALL-IN NOTICE

CERTIFIED MAIL

Dear Sir or Madam:

This Notice requires you and other registrants of pesticide products containing the active ingredient identified in Attachment A of this Notice, the Data Call-In Chemical Status Sheet, to submit certain data as noted herein to the U.S. Environmental Protection Agency (EPA, the Agency). These data are necessary to maintain the continued registration of your product(s) containing this active ingredient. Within 90 days after you receive this Notice you must respond as set forth in Section III below. Your response must state:

- 1. How you will comply with the requirements set forth in this Notice and its Attachments 1 through 7; or
- 2. Why you believe you are exempt from the requirements listed in this Notice and in Attachment 3 (for both generic and product specific data), the <u>Requirements</u> Status and Registrant's Response Form, (see section III-B); or
- 3. Why you believe EPA should not require your submission of data in the manner specified by this Notice (see section III-D).

If you do not respond to this Notice, or if you do not satisfy EPA that you will comply with its requirements or should be exempt or excused from doing so, then the registration of your product(s) subject to this Notice will be subject to suspension. We have provided a list of all of your products subject to this Notice in Attachment 2. All products are listed on both the generic and product specific Data Call-In Response Forms. registrants who were sent this Notice (Attachment 6).

The authority for this Notice is section 3(c)(2)(B) of the Federal Insecticide, Fungicide and Rodenticide Act as amended (FIFRA), 7 U.S.C. section 136a(c)(2)(B). Collection of this information is authorized under the Paperwork Reduction Act by OMB Approval No. 2070-0107 and 2070-0057 (expiration date 3-31-96).

This Notice is divided into six sections and seven Attachments. The Notice itself contains information and instructions applicable to all Data Call-In Notices. The Attachments contain specific chemical information and instructions. The six sections of the Notice are:

Section I-Why You are Receiving this NoticeSection II-Data Required by this NoticeSection III-Compliance with Requirements of this NoticeSection IV-Consequences of Failure to Comply with this NoticeSection V-Registrants' Obligation to Report Possible Unreasonable Adverse EffectsSection VI-Inquiries and Responses to this Notice

The Attachments to this Notice are:

1 - Data Call-In Chemical Status Sheet

- 2 Generic Data Call-In and Product Specific Data Call-In Response Forms with Instructions
- 3 Generic Data Call-In and Product Specific Data Call-In Requirements Status and Registrant's Response Forms with Instructions
- 4 <u>EPA Grouping of End-Use Products for Meeting Acute Toxicology Data</u> Requirements for Reregistration
- 5 EPA Acceptance Criteria
- 6 List of Registrants Receiving This Notice
- 7 Cost Share and Data Compensation Forms

SECTION I. WHY YOU ARE RECEIVING THIS NOTICE

The Agency has reviewed existing data for this active ingredient(s) and reevaluated the data needed to support continued registration of the subject active ingredient(s). This reevaluation identified additional data necessary to assess the health and safety of the continued use of products containing this active ingredient(s). You have been sent this Notice because you have product(s) containing the subject active ingredients.

SECTION II. DATA REQUIRED BY THIS NOTICE

II-A. DATA REQUIRED

The data required by this Notice are specified in the Requirements Status and Registrant's Response Forms: Attachment 3 (for both generic and product specific data requirements). Depending on the results of the studies required in this Notice, additional studies/testing may be required.

II-B. SCHEDULE FOR SUBMISSION OF DATA

You are required to submit the data or otherwise satisfy the data requirements specified in the <u>Requirements Status and Registrant's Response Forms</u> (Attachment 3) within the timeframes provided.

II-C. TESTING PROTOCOL

All studies required under this Notice must be conducted in accordance with test standards outlined in the Pesticide Assessment Guidelines for those studies for which guidelines have been established.

These EPA Guidelines are available from the National Technical Information Service (NTIS), Attn: Order Desk, 5285 Port Royal Road, Springfield, Va 22161 (Telephone number: 703-487-4650).

Protocols approved by the Organization for Economic Cooperation and Development (OECD) are also acceptable if the OECD recommended test standards conform to those specified in the Pesticide Data Requirements regulation (40 CFR § 158.70). When using the OECD protocols, they should be modified as appropriate so that the data generated by the study will satisfy the requirements of 40 CFR § 158. Normally, the Agency will not extend deadlines for complying with data requirements when the studies were not conducted in accordance with acceptable standards. The OECD protocols are available from OECD, 2001 L Street, N.W., Washington, D.C. 20036 (Telephone number 202-785-6323; Fax telephone number 202-785-0350).

All new studies and proposed protocols submitted in response to this Data Call-In Notice must be in accordance with Good Laboratory Practices [40 CFR Part 160].

II-D. REGISTRANTS RECEIVING PREVIOUS SECTION 3(c)(2)(B) NOTICES ISSUED BY THE AGENCY

Unless otherwise noted herein, this Data Call-In does not in any way supersede or change the requirements of any previous Data Call-In(s), or any other agreements entered into with the Agency pertaining to such prior Notice. Registrants must comply with the requirements of all Notices to avoid issuance of a Notice of Intent to Suspend their affected products.

SECTION III. COMPLIANCE WITH REQUIREMENTS OF THIS NOTICE

You must use the correct forms and instructions when completing your response to this Notice. The type of Data Call-In you must comply with (Generic or Product Specific) is specified in item number 3 on the four Data Call-In forms (Attachments 2 and 3).

III-A. SCHEDULE FOR RESPONDING TO THE AGENCY

The appropriate responses initially required by this Notice for generic and product specific data must be submitted to the Agency within 90 days after your receipt of this Notice. Failure to adequately respond to this Notice within 90 days of your receipt will be a basis for issuing a Notice of Intent to Suspend (NOIS) affecting your products. This and other bases for issuance of NOIS due to failure to comply with this Notice are presented in Section IV-A and IV-B.

III-B. OPTIONS FOR RESPONDING TO THE AGENCY

1. Generic Data Requirements

The options for responding to this Notice for generic data requirements are: (a) voluntary cancellation, (b) delete use(s), (c) claim generic data exemption, (d) agree to satisfy the generic data requirements imposed by this Notice or (e) request a data waiver(s).

A discussion of how to respond if you choose the Voluntary Cancellation option, the Delete Use(s) option or the Generic Data Exemption option is presented below. A discussion of the various options available for satisfying the generic data requirements of this Notice is contained in Section III-C. A discussion of options relating to requests for data waivers is contained in Section III-D.

Two forms apply to generic data requirements, one or both of which must be used in responding to the Agency, depending upon your response. These two forms are the Data-Call-In Response Form, and the Requirements Status and Registrant's Response Form, (contained in Attachments 2 and 3, respectively).

The Data Call-In Response Forms must be submitted as part of every response to this Notice. The Requirements Status and Registrant's Response Forms also must be submitted if you do not qualify for a Generic Data Exemption or are not requesting voluntary cancellation of your registration(s). Please note that the company's authorized representative is required to sign the first page of both Data Call-In Response Forms and the Requirements Status and Registrant's Response Forms (if this form is required) and initial any subsequent pages. The forms contain separate detailed instructions on the response options. Do not alter the printed material. If you have questions or need assistance in preparing your response, call or write the contact person(s) identified in Attachment 1.

a. Voluntary Cancellation -

You may avoid the requirements of this Notice by requesting voluntary cancellation of your product(s) containing the active ingredient that is the subject of this Notice. If you wish to voluntarily cancel your product, you must submit completed Generic and Product Specific

Data Call-In Response Forms (Attachment 2), indicating your election of this option. Voluntary cancellation is item number 5 on both Data Call-In Response Form(s). If you choose this option, these are the only forms that you are required to complete.

If you chose to voluntarily cancel your product, further sale and distribution of your product after the effective date of cancellation must be in accordance with the Existing Stocks provisions of this Notice, which are contained in Section IV-C.

b. Use Deletion -

You may avoid the requirements of this Notice by eliminating the uses of your product to which the requirements apply. If you wish to amend your registration to delete uses, you must submit the Requirements Status and Reqistrant's Response Form (Attachment 3), a completed application for amendment, a copy of your proposed amended labeling, and all other information required for processing the application. Use deletion is option number 7 under item 9 in the instructions for the Requirements Status and Reqistrant's Response Forms. You must also complete a Data Call-In Response Form by signing the certification, item number 8. Application forms for amending registrations may be obtained from the Registration Support Branch, Registration Division, Office of Pesticide Programs, EPA, by calling (703) 308-8358.

If you choose to delete the use(s) subject to this Notice or uses subject to specific data requirements, further sale, distribution, or use of your product after one year from the due date of your 90 day response, is allowed only if the product bears an amended label.

c. Generic Data Exemption -

Under section 3(c)(2)(D) of FIFRA, an applicant for registration of a product is exempt from the requirement to submit or cite generic data concerning an active ingredient if the active ingredient in the product is derived exclusively from purchased, registered pesticide products containing the active ingredient. EPA has concluded, as an exercise of its discretion, that it normally will not suspend the registration of a product which would qualify and continue to qualify for the generic data exemption in section 3(c)(2)(D) of FIFRA. To qualify, all of the following requirements must be met:

(i). The active ingredient in your registered product must be present solely because of incorporation of another registered product which contains the subject active ingredient and is purchased from a source not connected with you;

(ii). Every registrant who is the ultimate source of the active ingredient in your product subject to this DCI must be in compliance with the requirements of this Notice and must remain in compliance; and

(iii). You must have provided to EPA an accurate and current "Confidential Statement of Formula" for each of your products to which this Notice applies.

To apply for the Generic Data Exemption you must submit a completed Data Call-In Response Form, Attachment 2 and all supporting documentation. The Generic Data Exemption is item number 6a on the Data Call-In Response Form. If you claim a generic data exemption you are not required to complete the Requirements Status and Registrant's Response Form. Generic Data Exemption cannot be selected as an option for responding to product specific data requirements.

If you are granted a Generic Data Exemption, you rely on the efforts of other persons to provide the Agency with the required data. If the registrant(s) who have committed to generate and submit the required data fail to take appropriate steps to meet requirements or are no longer in compliance with this Data Call-In Notice, the Agency will consider that both they and you are not compliance and will normally initiate proceedings to suspend the registrations of both your and their product(s), unless you commit to submit and do submit the required data within the specified time. In such cases the Agency generally will not grant a time extension for submitting the data.

d. Satisfying the Generic Data Requirements of this Notice

There are various options available to satisfy the generic data requirements of this Notice. These options are discussed in Section III-C.1. of this Notice and comprise options 1 through 6 of item 9 in the instructions for the Requirements Status and Registrant's Response Form and item 6b on the Data Call-In Response Form. If you choose item 6b (agree to satisfy the generic data requirements), you must submit the Data Call-In Response Form and the Requirements Status and Registrant's Response Form as well as any other information/data pertaining to the option chosen to address the data requirement. Your response must be on the forms marked "GENERIC" in item number 3.

e. Request for Generic Data Waivers.

Waivers for generic data are discussed in Section III-D.1. of this Notice and are covered by options 8 and 9 of item 9 in the instructions for the <u>Requirements Status and</u> <u>Registrant's Response Form</u>. If you choose one of these options, you must submit both forms as well as any other information/data pertaining to the option chosen to address the data requirement.

2. Product Specific Data Requirements

The options for responding to this Notice for product specific data are: (a) voluntary cancellation, (b) agree to satisfy the product specific data requirements imposed by this Notice or (c) request a data waiver(s).

A discussion of how to respond if you choose the Voluntary Cancellation option is presented below. A discussion of the various options available for satisfying the product specific data requirements of this Notice is contained in Section III-C.2. A discussion of options relating to requests for data waivers is contained in Section III-D.2.

Two forms apply to the product specific data requirements one or both of which must be used in responding to the Agency, depending upon your response. These forms are the Data-Call-In Response Form, and the Requirements Status and Registrant's Response Form, for product specific data (contained in Attachments 2 and 3, respectively). The Data Call-In Response Form must be submitted as part of every response to this Notice. In addition, one copy of the Requirements Status and Registrant's Response Form also must be submitted for each product listed on the Data Call-In Response Form unless the voluntary cancellation option is selected. Please note that the company's authorized representative is required to sign the first page of the Data Call-In Response Form and Requirements Status and Registrant's Response Form (if this form is required) and initial any subsequent pages. The forms contain separate detailed instructions on the response options. Do not alter the printed material. If you have questions or need assistance in preparing your response, call or write the contact person(s) identified in Attachment 1.

a. Voluntary Cancellation

You may avoid the requirements of this Notice by requesting voluntary cancellation of your product(s) containing the active ingredient that is the subject of this Notice. If you wish to voluntarily cancel your product, you must submit a completed Data Call-In Response Form, indicating your election of this option. Voluntary cancellation is item number 5 on both the Generic and Product Specific Data Call-In Response Forms. If you choose this option, you must complete both Data Call-In response forms. These are the only forms that you are required to complete.

If you choose to voluntarily cancel your product, further sale and distribution of your product after the effective date of cancellation must be in accordance with the Existing Stocks provisions of this Notice which are contained in Section IV-C.

b. Satisfying the Product Specific Data Requirements of this Notice.

There are various options available to satisfy the product specific data requirements of this Notice. These options are discussed in Section III-C.2. of this Notice and comprise options 1 through 6 of item 9 in the instructions for the product specific Requirements Status and Reqistrant's Response Form and item numbers 7a and 7b (agree to satisfy the product specific data requirements for an MUP or EUP as applicable) on the product specific data requirements. Note that the options available for addressing product specific data requirements. Deletion of a use(s) and the low volume/minor use option are not valid options for fulfilling product specific data requirements. It is important to ensure that you are using the correct forms and instructions when completing your response to the Reregistration Eligibility Decision document.

c. Request for Product Specific Data Waivers.

Waivers for product specific data are discussed in Section III-D.2. of this Notice and are covered by option 7 of item 9 in the instructions for the Requirements Status and Registrant's Response Form. If you choose this option, you must submit the Data Call-In Response Form and the Requirements Status and Registrant's Response Form as well as any other information/data pertaining to the option chosen to address the data requirement. Your response must be on the forms marked "PRODUCT SPECIFIC" in item number 3.

III-C SATISFYING THE DATA REQUIREMENTS OF THIS NOTICE

1. Generic Data

If you acknowledge on the Generic Data Call-In Response Form that you agree to satisfy the generic data requirements (i.e. you select item number 6b), then you must select one of the six options on the Generic Requirements Status and Registrant's Response Form related to data production for each data requirement. Your option selection should be entered under item number 9, "Registrant Response." The six options related to data production are the first six options discussed under item 9 in the instructions for completing the Requirements Status and Registrant's Response Form. These six options are listed immediately below with information in parentheses to guide you to additional instructions provided in this Section. The options are:

- (1) I will generate and submit data within the specified timeframe (Developing Data)
- (2) I have entered into an agreement with one or more registrants to develop data jointly (Cost Sharing)
- (3) I have made offers to cost-share (Offers to Cost Share)
- (4) I am submitting an existing study that has not been submitted previously to the Agency by anyone (Submitting an Existing Study)
- (5) I am submitting or citing data to upgrade a study classified by EPA as partially acceptable and upgradeable (Upgrading a Study)
 (6) I am citing an existing study that EPA has classified as acceptable or an existing
- (6) I am citing an existing study that EPA has classified as acceptable or an existing study that has been submitted but not reviewed by the Agency (Citing an Existing Study)

Option 1. Developing Data

If you choose to develop the required data it must be in conformance with Agency deadlines and with other Agency requirements as referenced herein and in the attachments. All data generated and submitted must comply with the Good Laboratory Practice (GLP) rule (40

CFR Part 160), be conducted according to the Pesticide Assessment Guidelines (PAG) and be in conformance with the requirements of PR Notice 86-5. In addition, certain studies require Agency approval of test protocols in advance of study initiation. Those studies for which a protocol must be submitted have been identified in the Requirements Status and Registrant's Response Form and/or footnotes to the form. If you wish to use a protocol which differs from the options discussed in Section II-C of this Notice, you must submit a detailed description of the proposed protocol and your reason for wishing to use it. The Agency may choose to reject a protocol not specified in Section II-C. If the Agency rejects your protocol you will be notified in writing, however, you should be aware that rejection of a proposed protocol will not be a basis for extending the deadline for submission of data.

A progress report must be submitted for each study within 90 days from the date you are required to commit to generate or undertake some other means to address that study requirement, such as making an offer to cost share or agreeing to share in the cost of developing that study. This 90-day progress report must include the date the study was or will be initiated and, for studies to be started within 12 months of commitment, the name and address of the laboratory(ies) or individuals who are or will be conducting the study.

In addition, if the time frame for submission of a final report is more than 1 year, interim reports must be submitted at 12 month intervals from the date you are required to commit to generate or otherwise address the requirement for the study. In addition to the other information specified in the preceding paragraph, at a minimum, a brief description of current activity on and the status of the study must be included as well as a full description of any problems encountered since the last progress report.

The time frames in the <u>Requirements Status and Registrant's Response Form</u> are the time frames that the Agency is allowing for the submission of completed study reports or protocols. The noted deadlines run from the date of the receipt of this Notice by the registrant. If the data are not submitted by the deadline, each registrant is subject to receipt of a Notice of Intent to Suspend the affected registration(s).

If you cannot submit the data/reports to the Agency in the time required by this Notice and intend to seek additional time to meet the requirements(s), you must submit a request to the Agency which includes: (1) a detailed description of the expected difficulty and (2) a proposed schedule including alternative dates for meeting such requirements on a step-by-step basis. You must explain any technical or laboratory difficulties and provide documentation from the laboratory performing the testing. While EPA is considering your request, the original deadline remains. The Agency will respond to your request in writing. If EPA does not grant your request, the original deadline remains. Normally, extensions can be requested only in cases of extraordinary testing problems beyond the expectation or control of the registrant. Extensions will not be given in submitting the 90-day responses. Extensions will not be considered if the request for extension is not made in a timely fashion; in no event shall an extension request be considered if it is submitted at or after the lapse of the subject deadline.

Option 2. Agreement to Share in Cost to Develop Data

If you choose to enter into an agreement to share in the cost of producing the required data but will not be submitting the data yourself, you must provide the name of the registrant who will be submitting the data. You must also provide EPA with documentary evidence that an agreement has been formed. Such evidence may be your letter offering to join in an agreement and the other registrant's acceptance of your offer, or a written statement by the parties that an agreement exists. The agreement to produce the data need not specify all of the terms of the final arrangement between the parties or the mechanism to resolve the terms. Section 3(c)(2)(B) provides that if the parties cannot resolve the terms of the agreement they may resolve their differences through binding arbitration.

Option 3. Offer to Share in the Cost of Data Development

If you have made an offer to pay in an attempt to enter into an agreement or amend an existing agreement to meet the requirements of this Notice and have been unsuccessful, you may request EPA (by selecting this option) to exercise its discretion not to suspend your registration(s), although you do not comply with the data submission requirements of this Notice. EPA has determined that as a general policy, absent other relevant considerations, it will not suspend the registration of a product of a registrant who has in good faith sought and continues to seek to enter into a joint data development/cost sharing program, but the other registrant(s) developing the data has refused to accept the offer. To qualify for this option, you must submit documentation to the Agency proving that you have made an offer to another registrant (who has an obligation to submit data) to share in the burden of developing that data. You must also submit to the Agency a completed EPA Form 8570-32, Certification of Offer to Cost Share in the Development of Data, Attachment 7. In addition, you must demonstrate that the other registrant to whom the offer was made has not accepted your offer to enter into a cost-sharing agreement by including a copy of your offer must, in addition to anything else, offer to share in the burden of producing the data upon terms to be agreed to or, failing agreement, to be bound by binding arbitration as provided by FIFRA section 3(c)(2)(B)(iii) and must not qualify this offer. The other registrant 's Response Form and a Requirements Status and Registrant's Response Form committing to develop and submit the data required by this Notice.

In order for you to avoid suspension under this option, you may not withdraw your offer to share in the burden of developing the data. In addition, the other registrant must fulfill its commitment to develop and submit the data as required by this Notice. If the other registrant fails to develop the data or for some other reason is subject to suspension, your registration as well as that of the other registrant normally will be subject to initiation of suspension proceedings, unless you commit to submit, and do submit, the required data in the specified time frame. In such cases, the Agency generally will not grant a time extension for submitting the data.

Option 4. Submitting an Existing Study

If you choose to submit an existing study in response to this Notice, you must determine that the study satisfies the requirements imposed by this Notice. You may only submit a study that has not been previously submitted to the Agency or previously cited by anyone. Existing studies are studies which predate issuance of this Notice. Do not use this option if you are submitting data to upgrade a study. (See Option 5).

You should be aware that if the Agency determines that the study is not acceptable, the Agency will require you to comply with this Notice, normally without an extension of the required date of submission. The Agency may determine at any time that a study is not valid and needs to be repeated.

To meet the requirements of the DCI Notice for submitting an existing study, <u>all of the</u> following three criteria must be clearly Met:

a. You must certify at the time that the existing study is submitted that the raw data and specimens from the study are available for audit and review and you must identify where they are available. This must be done in accordance with the requirements of the Good Laboratory Practice (GLP) regulation, 40 CFR Part 160. As stated in 40 CFR 160.3 'Raw data' means any laboratory worksheets, records, memoranda, notes, or exact copies thereof, that are the result of original observations and activities of a study and are necessary for the reconstruction and evaluation of the report of that study. In the event that exact transcripts of raw data have been prepared (e.g., tapes which have been

transcribed verbatim, dated, and verified accurate by signature), the exact copy or exact transcript may be substituted for the original source as raw data. 'Raw data' may include photographs, microfilm or microfiche copies, computer printouts, magnetic media, including dictated observations, and recorded data from automated instruments." The term "specimens", according to 40 CFR 160.3, means "any material derived from a test system for examination or analysis."

- b. Health and safety studies completed after May 1984 also must also contain all GLP-required quality assurance and quality control information, pursuant to the requirements of 40 CFR Part 160. Registrants also must certify at the time of submitting the existing study that such GLP information is available for post May 1984 studies by including an appropriate statement on or attached to the study signed by an authorized official or representative of the registrant.
- c. You must certify that each study fulfills the acceptance criteria for the Guideline relevant to the study provided in the FIFRA Accelerated Reregistration Phase 3 Technical Guidance and that the study has been conducted according to the Pesticide Assessment Guidelines (PAG) or meets the purpose of the PAG (both available from NTIS). A study not conducted according to the PAG may be submitted to the Agency for consideration if the registrant believes that the study clearly meets the purpose of the PAG. The registrant is referred to 40 CFR 158.70 which states the Agency's policy regarding acceptable protocols. If you wish to submit the study, you must, in addition to certifying that the purposes of the PAG are met by the study, clearly articulate the rationale why you believe the study meets the purpose of the PAG, including copies of any supporting information or data. It has been the Agency's experience that studies completed prior to January 1970 rarely satisfied the purpose of the PAG and that necessary raw data usually are not available for such studies.

If you submit an existing study, you must certify that the study meets all requirements of the criteria outlined above.

If EPA has previously reviewed a protocol for a study you are submitting, you must identify any action taken by the Agency on the protocol and must indicate, as part of your certification, the manner in which all Agency comments, concerns, or issues were addressed in the final protocol and study.

If you know of a study pertaining to any requirement in this Notice which does not meet the criteria outlined above but does contain factual information regarding unreasonable adverse effects, you must notify the Agency of such a study. If such study is in the Agency's files, you need only cite it along with the notification. If not in the Agency's files, you must submit a summary and copies as required by PR Notice 86-5.

Option 5. Upgrading a Study

If a study has been classified as partially acceptable and upgradeable, you may submit data to upgrade that study. The Agency will review the data submitted and determine if the requirement is satisfied. If the Agency decides the requirement is not satisfied, you may still be required to submit new data normally without any time extension. Deficient, but upgradeable studies will normally be classified as supplemental. However, it is important to note that not all studies classified as supplemental are upgradeable. If you have questions regarding the classification of a study or whether a study may be upgraded, call or write the contact person listed in Attachment 1. If you submit data to upgrade an existing study you must satisfy or supply information to correct all deficiencies in the study identified by EPA. You must provide a clearly articulated rationale of how the deficiencies have been remedied or corrected and why the study should be rated as acceptable to EPA. Your submission must also specify the MRID number(s) of the study which you are attempting to upgrade and must be in conformance with PR Notice 86-5.

Do not submit additional data for the purpose of upgrading a study classified as unacceptable and determined by the Agency as not capable of being upgraded.

This option also should be used to cite data that has been previously submitted to upgrade a study, but has not yet been reviewed by the Agency. You must provide the MRID number of the data submission as well as the MRID number of the study being upgraded.

The criteria for submitting an existing study, as specified in Option 4 above, apply to all data submissions intended to upgrade studies. Additionally, your submission of data intended to upgrade studies must be accompanied by a certification that you comply with each of those criteria, as well as a certification regarding protocol compliance with Agency requirements.

Option 6. Citing Existing Studies

If you choose to cite a study that has been previously submitted to EPA, that study must have been previously classified by EPA as acceptable, or it must be a study which has not yet been reviewed by the Agency. Acceptable toxicology studies generally will have been classified as "core-guideline" or "core-minimum." For ecological effects studies, the classification generally would be a rating of "core." For all other disciplines the classification would be "acceptable." With respect to any studies for which you wish to select this option, you must provide the MRID number of the study you are citing and, if the study has been reviewed by the Agency, you must provide the Agency's classification of the study.

If you are citing a study of which you are not the original data submitter, you must submit a completed copy of EPA Form 8570-31, <u>Certification with Respect to Data</u> Compensation Requirements.

2. Product Specific Data

If you acknowledge on the product specific <u>Data Call-In Response Form</u> that you agree to satisfy the product specific data requirements (i.e. you select option 7a or 7b), then you must select one of the six options on the <u>Requirements Status and Registrant's Response Form</u> related to data production for each data requirement. Your option selection should be entered under item number 9, "Registrant Response." The six options related to data production are the first six options discussed under item 9 in the instructions for completing the <u>Requirements</u> <u>Status and Registrant's Response Form</u>. These six options are listed immediately below with information in parentheses to guide registrants to additional instructions provided in this Section. The options are:

- (1) I will generate and submit data within the specified time-frame (Developing Data)
- (2) I have entered into an agreement with one or more registrants to develop data

jointly (Cost Sharing)

- I have made offers to cost-share (Offers to Cost Share)
- (3) (4) I am submitting an existing study that has not been submitted previously to the
- Agency by anyone (Submitting an Existing Study) I am submitting or citing data to upgrade a study classified by EPA as partially acceptable and upgradeable (Upgrading a Study) I am citing an existing study that EPA has classified as acceptable or an existing (5)
- (6) study that has been submitted but not reviewed by the Agency (Citing an Existing Study)

Option 1. Developing Data -- The requirements for developing product specific data are the same as those described for generic data (see Section III.C.1, Option 1) except that normally no protocols or progress reports are required.

Option 2. Agree to Share in Cost to Develop Data -- If you enter into an agreement to cost share, the same requirements apply to product specific data as to generic data (see Section III.C.1, Option 2). However, registrants may only choose this option for acute toxicity data and certain efficacy data and only if EPA has indicated in the attached data tables that your product and at least one other product are similar for purposes of depending on the same data. If this is the case, data may be generated for just one of the products in the group. The <u>registration number</u> of the product for which data <u>will</u> be submitted <u>must</u> be noted in the agreement to cost share by the registrant selecting this option.

Option 3. Offer to Share in the Cost of Data Development -- The same requirements for generic data (Section III.C.I., Option 3) apply to this option. This option only applies to acute toxicity and certain efficacy data as described in option 2 above.

Option 4. Submitting an Existing Study -- The same requirements described for generic data (see Section III.C.1., Option 4) apply to this option for product specific data.

Option 5. Upgrading a Study -- The same requirements described for generic data (see Section III.C.1., Option 5) apply to this option for product specific data.

Option 6. Citing Existing Studies -- The same requirements described for generic data (see Section III.C.1., Option 6) apply to this option for product specific data.

Registrants who select one of the above 6 options must meet all of the requirements described in the instructions for completing the Data Call-In Response Form and the Requirements Status and Registrant's Response Form, and in the generic data requirements section (III.C.1.), as appropriate.

III-D REQUESTS FOR DATA WAIVERS

1. Generic Data

There are two types of data waiver responses to this Notice. The first is a request for a low volume/minor use waiver and the second is a waiver request based on your belief that the data requirement(s) are not appropriate for your product.

Low Volume/Minor Use Waiver a.

Option 8 under item 9 on the Requirements Status and Registrant's Response Form. Section 3(c)(2)(A) of FIFRA requires EPA to consider the appropriateness of requiring data for low volume, minor use pesticides. In implementing this provision, EPA considers low volume pesticides to be only those active ingredients whose total production volume for all pesticide registrants is small. In determining whether to grant a low volume, minor use waiver, the Agency will consider the extent, pattern and volume of use, the economic incentive to conduct the testing, the importance of the

pesticide, and the exposure and risk from use of the pesticide. If an active ingredient is used for both high volume and low volume uses, a low volume exemption will not be approved. If all uses of an active ingredient are low volume and the combined volumes for all uses are also low, then an exemption may be granted, depending on review of other information outlined below. An exemption will not be granted if any registrant of the active ingredient elects to conduct the testing. Any registrant receiving a low volume minor use waiver must remain within the sales figures in their forecast supporting the waiver request in order to remain qualified for such waiver. If granted a waiver, a registrant will be required, as a condition of the waiver, to submit annual sales reports. The Agency will respond to requests for waivers in writing.

To apply for a low volume, minor use waiver, you must submit the following information, as applicable to your product(s), as part of your 90-day response to this Notice:

(i). Total company sales (pounds and dollars) of all registered product(s) containing the active ingredient. If applicable to the active ingredient, include foreign sales for those products that are not registered in this country but are applied to sugar (cane or beet), coffee, bananas, cocoa, and other such crops. Present the above information by year for each of the past five years.

(ii) Provide an estimate of the sales (pounds and dollars) of the active ingredient for each major use site. Present the above information by year for each of the past five years.

(iii) Total direct production cost of product(s) containing the active ingredient by year for the past five years. Include information on raw material cost, direct labor cost, advertising, sales and marketing, and any other significant costs listed separately.

(iv) Total indirect production cost (e.g. plant overhead, amortized plant and equipment) charged to product(s) containing the active ingredient by year for the past five years. Exclude all non-recurring costs that were directly related to the active ingredient, such as costs of initial registration and any data development.

(v) A list of each data requirement for which you seek a waiver. Indicate the type of waiver sought and the estimated cost to you (listed separately for each data requirement and associated test) of conducting the testing needed to fulfill each of these data requirements.

(vi) A list of each data requirement for which you are not seeking any waiver and the estimated cost to you (listed separately for each data requirement and associated test) of conducting the testing needed to fulfill each of these data requirements.

(vii) For each of the next ten years, a year-by-year forecast of company sales (pounds and dollars) of the active ingredient, direct production costs of product(s) containing the active ingredient (following the parameters in item 2 above), indirect production costs of product(s) containing the active ingredient (following the parameters in item 3 above), and costs of data development pertaining to the active ingredient.

(viii) A description of the importance and unique benefits of the active ingredient to users. Discuss the use patterns and the effectiveness of the active ingredient relative to registered alternative chemicals and non-chemical control strategies. Focus on benefits unique to the active ingredient, providing information that is as quantitative as possible. If you do not have quantitative data upon which to base your estimates, then present the reasoning used to derive your estimates. To assist the Agency in determining the degree of importance of the active ingredient in terms of its benefits, you should provide information on any of the following factors, as applicable to your product(s): (a) documentation of the usefulness of the active ingredient in Integrated Pest Management, (b) description of the beneficial impacts on the environment of use of the active ingredient, as opposed to its registered alternatives, (c) information on the breakdown of the active ingredient after use and on its persistence in the environment, and (d) description of its usefulness against a pest(s) of public health significance.

Failure to submit sufficient information for the Agency to make a determination regarding a request for a low volume/minor use waiver will result in denial of the request for a waiver.

b. Request for Waiver of Data

Option 9, under Item 9, on the Requirements Status and Registrant's Response Form. This option may be used if you believe that a particular data requirement should not apply because the requirement is inappropriate. You must submit a rationale explaining why you believe the data requirements should not apply. You also must submit the current label(s) of your product(s) and, if a current copy of your Confidential Statement of Formula is not already on file you must submit a current copy.

You will be informed of the Agency's decision in writing. If the Agency determines that the data requirements of this Notice are not appropriate to your product(s), you will not be required to supply the data pursuant to section 3(c)(2)(B). If EPA determines that the data are required for your product(s), you must choose a method of meeting the requirements of this Notice within the time frame provided by this Notice. Within 30 days of your receipt of the Agency's written decision, you must submit a revised <u>Requirements Status and Registrant's Response Form</u> indicating the option chosen.

2. Product Specific Data

If you request a waiver for product specific data because you believe it is inappropriate, you must attach a complete justification for the request including technical reasons, data and references to relevant EPA regulations, guidelines or policies. (Note: any supplemental data must be submitted in the format required by PR Notice 86-5). This will be the only opportunity to state the reasons or provide information in support of your request. If the Agency approves your waiver request, you will not be required to supply the data pursuant to section 3(c)(2)(B) of FIFRA. If the Agency denies your waiver request, you must choose an option for meeting the data requirements of this Notice within 30 days of the receipt of the Agency's decision. You must indicate and submit the option chosen on the product specific Requirements Status and Registrant's Response Form. Product specific data requirements for product chemistry, acute toxicity and efficacy (where appropriate) are required for all products and the Agency would grant a waiver only under extraordinary circumstances. You should also be aware that submitting a waiver request will not automatically extend the due date for the study in question. Waiver requests submitted without adequate supporting rationale will be denied and the original due date will remain in force.

SECTION IV. CONSEQUENCES OF FAILURE TO COMPLY WITH THIS NOTICE

IV-A NOTICE OF INTENT TO SUSPEND

The Agency may issue a Notice of Intent to Suspend products subject to this Notice due to failure by a registrant to comply with the requirements of this Data Call-In Notice, pursuant to FIFRA section 3(c)(2)(B). Events which may be the basis for issuance of a Notice of Intent to Suspend include, but are not limited to, the following:

- 1. Failure to respond as required by this Notice within 90 days of your receipt of this Notice.
- 2. Failure to submit on the required schedule an acceptable proposed or final protocol when such is required to be submitted to the Agency for review.
- 3. Failure to submit on the required schedule an adequate progress report on a study as required by this Notice.
- 4. Failure to submit on the required schedule acceptable data as required by this Notice.
- 5. Failure to take a required action or submit adequate information pertaining to any option chosen to address the data requirements (e.g., any required action or information pertaining to submission or citation of existing studies or offers, arrangements, or arbitration on the sharing of costs or the formation of Task Forces, failure to comply with the terms of an agreement or arbitration concerning joint data development or failure to comply with any terms of a data waiver).
- 6. Failure to submit supportable certifications as to the conditions of submitted studies, as required by Section III-C of this Notice.
- 7. Withdrawal of an offer to share in the cost of developing required data.
- 8. Failure of the registrant to whom you have tendered an offer to share in the cost of developing data and provided proof of the registrant's receipt of such offer or failure of a registrant on whom you rely for a generic data exemption either to:

i. Inform EPA of intent to develop and submit the data required by this Notice on a Data Call-In Response Form and a <u>Requirements Status and Reqistrant's</u> Response Form.

ii. Fulfill the commitment to develop and submit the data as required by this Notice; or

iii. Otherwise take appropriate steps to meet the requirements stated in this Notice,

unless you commit to submit and do submit the required data in the specified time frame.

9. Failure to take any required or appropriate steps, not mentioned above, at any time following the issuance of this Notice.

IV-B. BASIS FOR DETERMINATION THAT SUBMITTED STUDY IS UNACCEPTABLE

The Agency may determine that a study (even if submitted within the required time) is unacceptable and constitutes a basis for issuance of a Notice of Intent to Suspend. The grounds for suspension include, but are not limited to, failure to meet any of the following:

1) EPA requirements specified in the Data Call-In Notice or other documents incorporated by reference (including, as applicable, EPA Pesticide Assessment Guidelines, Data Reporting Guidelines, and GeneTox Health Effects Test Guidelines) regarding the design, conduct, and reporting of required studies. Such requirements include, but are not limited to, those relating to test material, test procedures, selection of species, number of animals, sex and distribution of animals, dose and effect levels to be tested or attained, duration of test, and, as applicable, Good Laboratory Practices.

2) EPA requirements regarding the submission of protocols, including the incorporation of any changes required by the Agency following review.

3) EPA requirements regarding the reporting of data, including the manner of reporting, the completeness of results, and the adequacy of any required supporting (or raw) data, including, but not limited to, requirements referenced or included in this Notice or contained in PR 86-5. All studies must be submitted in the form of a final report; a preliminary report will not be considered to fulfill the submission requirement.

IV-C EXISTING STOCKS OF SUSPENDED OR CANCELLED PRODUCTS

EPA has statutory authority to permit continued sale, distribution and use of existing stocks of a pesticide product which has been suspended or cancelled if doing so would be consistent with the purposes of the Act.

The Agency has determined that such disposition by registrants of existing stocks for a suspended registration when a section 3(c)(2)(B) data request is outstanding generally would not be consistent with the Act's purposes. Accordingly, the Agency anticipates granting registrants permission to sell, distribute, or use existing stocks of suspended product(s) only in exceptional circumstances. If you believe such disposition of existing stocks of your product(s) which may be suspended for failure to comply with this Notice should be permitted, you have the burden of clearly demonstrating to EPA that granting such permission would be consistent with the Act. You also must explain why an "existing stocks" provision is necessary, including a statement of the quantity of existing stocks and your estimate of the time required for their sale, distribution, and use. Unless you meet this burden, the Agency will not consider any request pertaining to the continued sale, distribution, or use of your existing stocks after suspension.

If you request a voluntary cancellation of your product(s) as a response to this Notice and your product is in full compliance with all Agency requirements, you will have, under most circumstances, one year from the date your 90 day response to this Notice is due, to sell, distribute, or use existing stocks. Normally, the Agency will allow persons other than the registrant such as independent distributors, retailers and end users to sell, distribute or use such existing stocks until the stocks are exhausted. Any sale, distribution or use of stocks of voluntarily cancelled products containing an active ingredient for which the Agency has particular risk concerns will be determined on a case-by-case basis.

Requests for voluntary cancellation received after the 90 day response period required by this Notice will not result in the agency granting <u>any</u> additional time to sell, distribute, or use existing stocks beyond a year from the date the 90 day response was due, <u>unless</u> you demonstrate to the Agency that you are in full compliance with all Agency requirements, including the requirements of this Notice. For example, if you decide to voluntarily cancel your registration six months before a 3-year study is scheduled to be submitted, all progress reports and other information necessary to establish that you have been conducting the study in an acceptable and good faith manner must have been submitted to the Agency, before EPA will consider granting an existing stocks provision.

SECTION V. REGISTRANTS' OBLIGATION TO REPORT POSSIBLE UNREASONABLE ADVERSE EFFECTS

Registrants are reminded that FIFRA section 6(a)(2) states that if at any time after a pesticide is registered a registrant has additional factual information regarding unreasonable adverse effects on the environment by the pesticide, the registrant shall submit the information to the Agency. Registrants must notify the Agency of any factual information they have, from whatever source, including but not limited to interim or preliminary results of studies, regarding unreasonable adverse effects on man or the environment. This requirement continues as long as the products are registered by the Agency.

SECTION VI. INQUIRIES AND RESPONSES TO THIS NOTICE

If you have any questions regarding the requirements and procedures established by this Notice, call the contact person(s) listed in Attachment 1, the Data Call-In Chemical Status Sheet.

All responses to this Notice must include completed Data Call-In Response Forms (Attachment 2) and completed <u>Requirements</u> Status and <u>Registrant's Response Forms</u> (Attachment 3), for both (generic and product specific data) and any other documents required by this Notice, and should be submitted to the contact person(s) identified in Attachment 1. If the voluntary cancellation or generic data exemption option is chosen, only the Generic and Product Specific Data Call-In Response Forms need be submitted.

The Office of Compliance (OC) of the Office of Enforcement and Compliance Assurance (OECA), EPA, will be monitoring the data being generated in response to this Notice.

Sincerely yours,

Louis P. True, Jr., Acting Director Special Review and **Reregistration Division**

Attachments

The Attachments to this Notice are:

- Data Call-In Chemical Status Sheet 1 -
- 2 -Generic Data Call-In and Product Specific Data Call-In Response Forms with Instructions
- 3 -Generic Data Call-In and Product Specific Data Call-In Requirements Status
- and Registrant's Response Forms with Instructions EPA Grouping of End-Use Products for Meeting Acute Toxicology Data Requirements for Reregistration EPA Acceptance Criteria 4 -
- 5 -
- 6 -
- List of Registrants Receiving This Notice Confidential Statement of Formula, Cost Share and Data Compensation Forms 7 -

Attachment 1. Chemical Status Sheets

PIPERALIN DATA CALL-IN CHEMICAL STATUS SHEET

INTRODUCTION

You have been sent this Generic Data Call-In Notice because you have product(s) containing Piperalin.

This Generic Data Call-In Chemical Status Sheet, contains an overview of data required by this notice, and point of contact for inquiries pertaining to the reregistration of Piperalin. This attachment is to be used in conjunction with (1) the Generic Data Call-In Notice, (2) the Generic Data Call-In Response Form (Attachment 2), (3) the Requirements Status and Registrant's Form (Attachment 2), (4) a list of registrants receiving this DCI (Attachment 4), (5) the EPA Acceptance Criteria (Attachment 5), and (6) the Cost Share and Data Compensation Forms in replying to this Piperalin Generic Data CallIn (Attachment F). Instructions and guidance accompany each form.

DATA REQUIRED BY THIS NOTICE

The additional data requirements needed to complete the generic database for Piperalin are contained in the Requirements Status and Registrant's Response, Attachment C. The Agency has concluded that additional product chemistry data on Piperalin are needed. These data are needed to fully complete the reregistration of all eligible Piperalin products.

INQUIRIES AND RESPONSES TO THIS NOTICE

If you have any questions regarding the generic data requirements and procedures established by this Notice, please contact C.P. Moran at (703) 308-8590.

All responses to this Notice for the generic data requirements should be submitted to:

C.P. Moran, Chemical Review Manager Planning and Reregistration Branch Special Review and Registration Division (H7508W) Office of Pesticide Programs U.S. Environmental Protection Agency Washington, D.C. 20460 RE: Piperalin

PIPERALIN DATA CALL-IN CHEMICAL STATUS SHEET

INTRODUCTION

You have been sent this Product Specific Data Call-In Notice because you have product(s) containing Piperalin.

This Product Specific Data Call-In Chemical Status Sheet, contains an overview of data required by this notice, and point of contact for inquiries pertaining to the reregistration of Piperalin. This attachment is to be used in conjunction with (1) the Product Specific Data Call-In Notice, (2) the Product Specific Data Call-In Response Form (Attachment 2), (3) the Requirements Status and Registrant's Form (Attachment 3), (4) EPA's Grouping of End-Use Products for Meeting Acute Toxicology Data Requirement (Attachment 4), (5) the EPA Acceptance Criteria (Attachment 5), (6) a list of registrants receiving this DCI (Attachment 6) and (7) the Cost Share and Data Compensation Forms in replying to this Piperalin Product Specific Data Call-In (Attachment 7). Instructions and guidance accompany each form.

DATA REQUIRED BY THIS NOTICE

The additional data requirements needed to complete the database for Piperalin are contained in the Requirements Status and Registrant's Response, Attachment 3. The Agency has concluded that additional data on Piperalin are needed for specific products. These data are required to be submitted to the Agency within the time frame listed. These data are needed to fully complete the reregistration of all eligible Piperalin products.

INQUIRIES AND RESPONSES TO THIS NOTICE

If you have any questions regarding the generic database of Piperalin, please contact C.P. Moran at (703) 308-8590.

If you have any questions regarding the product specific data requirements and procedures established by this Notice, please contact C.P. Moran at (703) 308-8008.

All responses to this Notice for the Product Specific data requirements should be submitted to: C.P. Moran

C.P. Moran Chemical Review Manager Team 81 Product Reregistration Branch Special Review and Reregistration Branch 7508W Office of Pesticide Programs U.S. Environmental Protection Agency Washington, D.C. 20460

RE: **Piperalin**

Attachment 2. Combined Generic and Product Specific Data Call-In Response Forms (Form A inserts) Plus Instructions

Instructions For Completing The "Data Call-In Response Forms" For The Generic And Product Specific Data Call-In

INTRODUCTION

These instructions apply to the Generic and Product Specific "Data Call-In Response Forms" and are to be used by registrants to respond to generic and product specific Data Call-Ins as part of EPA's Reregistration Program under the Federal Insecticide, Fungicide, and Rodenticide Act. The type of data call-in (generic or product specific) is indicated in item number 3 ("Date and Type of DCI") on each form. BOTH "Data Call-In Response" forms must be completed.

Although the form is the same for both generic and product specific data, instructions for completing these forms are different. Please read these instructions carefully before filling out the forms.

EPA has developed these forms individually for each registrant, and has preprinted these forms with a number of items. DO NOT use these forms for any other active ingredient.

Items 1 through 4 have been preprinted on the form. Items 5 through 7 must be completed by the registrant as appropriate. Items 8 through 11 must be completed by the registrant before submitting a response to the Agency.

The public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, Mail Code 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Management and Budget, Paperwork Reduction Project 2070-0107, Washington, D.C. 20503.

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

Item 1.ON BOTH FORMS: This item identifies your company name, number and address.

Item 2.**ON BOTH FORMS:** This item identifies the case number, case name, EPA chemical number and chemical name.

Item 3.**ON BOTH FORMS:** This item identifies the type of Data Call-In. The date of issuance is date stamped.

Item 4. **ON BOTH FORMS:** This item identifies the EPA product registrations relevant to the data call-in. Please note that you are also responsible for informing the Agency of your response regarding any product that you believe may be covered by this Data Call-In but that is not listed by the Agency in Item 4. You must bring any such apparent omission to the Agency's attention within the period required for submission of this response form.

Item 5.**ON BOTH FORMS:** Check this item for each product registration you wish to cancel voluntarily. If a registration number is listed for a product for which you previously requested voluntary cancellation, indicate in Item 5 the date of that request. Since this Data Call-In requires both generic and product specific data, you must complete item 5 on both Data Call-In In response forms. You do not need to complete any item on the <u>Requirements Status and</u> Registrant's Response Forms.

Item 6a. **ON THE GENERIC DATA FORM:** Check this Item if the Data Call-In is for generic data as indicated in Item 3 and you are eligible for a Generic Data Exemption for the chemical listed in Item 2 and used in the subject product. By electing this exemption, you agree to the terms and conditions of a Generic Data Exemption as explained in the Data Call-In Notice.

If you are eligible for or claim a Generic Data Exemption, enter the EPA registration Number of each registered source of that active ingredient that you use in your product.

Typically, if you purchase an EPA-registered product from one or more other producers (who, with respect to the incorporated product, are in compliance with this and any other outstanding Data Call-In Notice), and

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

incorporate that product into all your products, you may complete this item for all products listed on this form. If, however, you produce the active ingredient yourself, or use any unregistered product (regardless of the fact that some of your sources are registered), you may not claim a Generic Data Exemption and you may not select this item.

Item 6b. **ON THE GENERIC DATA FORM:** Check this Item if the Data Call-In is for generic data as indicated in Item 3 and if you are agreeing to satisfy the generic data requirements of this Data Call-In. Attach the Requirements Status and Registrant's Response Form that indicates how you will satisfy those requirements.

NOTE: Item 6a and 6b are not applicable for Product Specific Data.

Item 7a.**ON THE PRODUCT SPECIFIC DATA FORM:** For each manufacturing use product (MUP) for which you wish to maintain registration, you must agree to satisfy the data requirements by responding "yes."

Item 7b.For each end use product (EUP) for which you wish to maintain registration, you must agree to satisfy the data requirements by responding "yes."

FOR BOTH MUP and EUP products

You should also respond "yes" to this item (7a for MUP's and 7b for EUP's) if your product is identical to another product and you qualify for a data exemption. You must provide the EPA registration numbers of your source(s); do not complete the Requirements Status and Registrant's Response form. Examples of such products include repackaged products and Special Local Needs (Section 24c) products which are identical to federally registered products.

If you are requesting a data waiver, answer "yes" here; in addition, on the "Requirements Status and Registrant's Response" form under Item 9, you must respond with option 7 (Waiver Request) for each study for which you are requesting a waiver.

NOTE: Item 7a and 7b are not applicable for Generic Data.

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

Item 8. **ON BOTH FORMS:** This certification statement must be signed by an authorized representative of your company and the person signing must include his/her title. Additional pages used in your response must be initialled and dated in the space provided for the certification.

Item 9.**ON BOTH FORMS:** Enter the date of signature.

Item 10.**ON BOTH FORMS:** Enter the name of the person EPA should contact with questions regarding your response.

Item 11.ON BOTH FORMS: Enter the phone number of your company contact.

Note: You may provide additional information that does not fit on this form in a signed letter that accompanies your response. For example, you may wish to report that your product has already been transferred to another company or that you have already voluntarily cancelled this product. For these cases, please supply all relevant details so that EPA can ensure that its records are correct.

Attachment 3. Generic and Product Specific Requirement Status and Registrant's Response Forms (Form B inserts) and Instructions Instructions For Completing The "Data Call-In Response Forms" For The Generic And Product Specific Data Call-In

INTRODUCTION

These instructions apply to the Generic and Product Specific "Data Call-In Response Forms" and are to be used by registrants to respond to generic and product specific Data Call-Ins as part of EPA's Reregistration Program under the Federal Insecticide, Fungicide, and Rodenticide Act. **The type of data call-in (generic or product specific) is indicated in item number 3 ("Date and Type of DCI") on each form**. **BOTH** "Data Call-In Response" forms must be completed.

Although the form is the same for both generic and product specific data, instructions for completing these forms are different. Please read these instructions carefully before filling out the forms.

EPA has developed these forms individually for each registrant, and has preprinted these forms with a number of items. DO NOT use these forms for any other active ingredient.

Items 1 through 4 have been preprinted on the form. Items 5 through 7 must be completed by the registrant as appropriate. Items 8 through 11 must be completed by the registrant before submitting a response to the Agency.

The public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, Mail Code 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Management and Budget, Paperwork Reduction Project 2070-0107, Washington, D.C. 20503.

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

Item 1.**ON BOTH FORMS**: This item identifies your company name, number and address.

Item 2.**ON BOTH FORMS:** This item identifies the case number, case name, EPA chemical number and chemical name.

Item 3.**ON BOTH FORMS:** This item identifies the type of Data Call-In. The date of issuance is date stamped.

Item 4.**ON BOTH FORMS:** This item identifies the EPA product registrations relevant to the data call-in. Please note that you are also responsible for informing the Agency of your response regarding any product that you believe may be covered by this Data Call-In but that is not listed by the Agency in Item 4. You must bring any such apparent omission to the Agency's attention within the period required for submission of this response form.

Item 5.**ON BOTH FORMS:** Check this item for each product registration you wish to cancel voluntarily. If a registration number is listed for a product for which you previously requested voluntary cancellation, indicate in Item 5 the date of that request. Since this Data Call-In requires both generic and product specific data, you must complete item 5 on both Data Call-In response forms. You do not need to complete any item on the <u>Requirements Status and Registrant's</u> Response Forms.

Item 6a.**ON THE GENERIC DATA FORM:** Check this Item if the Data Call-In is for generic data as indicated in Item 3 and you are eligible for a Generic Data Exemption for the chemical listed in Item 2 and used in the subject product. By electing this exemption, you agree to the terms and conditions of a Generic Data Exemption as explained in the Data Call-In Notice.

If you are eligible for or claim a Generic Data Exemption, enter the EPA registration Number of each registered source of that active ingredient that you use in your product.

Typically, if you purchase an EPA-registered product from one or more other producers (who, with respect to the incorporated product, are in compliance with this and any other outstanding Data Call-In Notice), and

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

incorporate that product into all your products, you may complete this item for all products listed on this form. If, however, you produce the active ingredient yourself, or use any unregistered product (regardless of the fact that some of your sources are registered), you may not claim a Generic Data Exemption and you may not select this item.

Item 6b.**ON THE GENERIC DATA FORM:** Check this Item if the Data Call-In is for generic data as indicated in Item 3 and if you are agreeing to satisfy the generic data requirements of this Data Call-In. Attach the Requirements Status and Registrant's Response Form that indicates how you will satisfy those requirements.

NOTE: Item 6a and 6b are not applicable for Product Specific Data.

Item 7a.**ON THE PRODUCT SPECIFIC DATA FORM:** For each manufacturing use product (MUP) for which you wish to maintain registration, you must agree to satisfy the data requirements by responding "yes."

Item 7b.For each end use product (EUP) for which you wish to maintain registration, you must agree to satisfy the data requirements by responding "yes."

FOR BOTH MUP and EUP products

You should also respond "yes" to this item (7a for MUP's and 7b for EUP's) if your product is identical to another product and you qualify for a data exemption. You must provide the EPA registration numbers of your source(s); do not complete the Requirements Status and Registrant's Response form. Examples of such products include repackaged products and Special Local Needs (Section 24c) products which are identical to federally registered products.

If you are requesting a data waiver, answer "yes" here; in addition, on the "Requirements Status and Registrant's Response" form under Item 9, you must respond with option 7 (Waiver Request) for each study for which you are requesting a waiver.

NOTE: Item 7a and 7b are not applicable for Generic Data.

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORMS Generic and Product Specific Data Call-In

Item 8.**ON BOTH FORMS:** This certification statement must be signed by an authorized representative of your company and the person signing must include his/her title. Additional pages used in your response must be initialled and dated in the space provided for the certification.

Item 9.**ON BOTH FORMS:** Enter the date of signature.

Item 10.**ON BOTH FORMS:** Enter the name of the person EPA should contact with questions regarding your response.

Item 11.**ON BOTH FORMS:** Enter the phone number of your company contact.

Note: You may provide additional information that does not fit on this form in a signed letter that accompanies your response. For example, you may wish to report that your product has already been transferred to another company or that you have already voluntarily cancelled this product. For these cases, please supply all relevant details so that EPA can ensure that its records are correct.

Attachment 4. EPA Batching of End-Use Products for Meeting Data Requirements for Reregistration

BATCHING

Since there is only one product, no batching is required.

Attachment 5. EPA Acceptance Criteria

SUBDIVISION D

- Guideline Study Title
- Series 61Product Identity and CompositionSeries 62Analysis and Certification of Product IngredientsSeries 63Physical and Chemical Characteristics

113

61 Product Identity and Composition

ACCEPTANCE CRITERIA

- Name of technical material tested (include product name and trade name, if appropriate). 1.____
- Name, nominal concentration, and certified limits (upper and lower) for each active ingredient and each intentionally-added inert ingredient. 2.
- Name and upper certified limit for each impurity or each group of impurities present at > 0.1% by weight and for certain toxicologically significant impurities (e.g., dioxins, nitrosamines) present at < 0.1%. 3._
- Purpose of each active ingredient and each intentionally-added inert. 4.
- Chemical name from Chemical Abstracts index of Nomenclature and Chemical Abstracts Service (CAS) Registry Number for each active ingredient and, if available, for each intentionally-added inert. 5.__
- Molecular, structural, and empirical formulas, molecular weight or weight range, and any company assigned experimental or internal code numbers for each active ingredient. 6.__
- 7.____
- Description of each beginning material in the manufacturing process.

 ______ EPA Registration Number if registered;

 for other beginning materials, the following:

 ______ Name and address of manufacturer or supplier.

 ______ Brand name, trade name or commercial designation.

 ______ Technical specifications or data sheets by which manufacturer or supplier describes composition, properties or toxicity.
- 8.____Description of manufacturing process. ______Statement of whether batch or continuous process. ______Relative amounts of beginning materials and order in which they are added.

 - Description of equipment. Description of physical conditions (temperature, pressure, humidity) controlled in each step and the parameters that are maintained. Statement of whether process involves intended chemical reactions. Flow chart with chemical equations for each intended chemical reaction.

 - Duration of each step of process. Description of purification procedures. Description of measures taken to assure quality of final product.
- Discussion of formation of impurities based on established chemical theory addressing (1) each impurity which may be present at $\geq 0.1\%$ or was found at $\geq 0.1\%$ by product analyses and (2) certain toxicologically significant impurities (see #3). 9.____

62 Analysis and Certification of Product Ingredients

ACCEPTANCE CRITERIA

The following criteria apply to the technical grade of the active ingredient being reregistered. Use a table to present the information in items 6, 7, and 8.

- 1._
- Five or more representative samples (batches in case of batch process) analyzed for each active ingredient and all impurities present at > 0.1%. Degree of accountability or closure > ca 98%. Analyses conducted for certain trace toxic impurities at lower than 0.1% (examples, nitrosamines in the case of products containing dinitroanilines or containing secondary or tertiary amines/alkanolamines plus nitrites; polyhalogenated dibenzodioxins and dibenzofurans). [Note that in the case of nitrosamines both fresh and stored samples must be analyzed.]. Complete and detailed description of each step in analytical method used to analyze above samples. Statement of precision and accuracy of analytical method used to analyze above samples. Identities and quantities (including mean and standard deviation) provided for each analyzed ingredient. Upper and lower certified limits proposed for each active ingredient and intentionally added inert along with explanation of how the limits were determined. Upper certified limit proposed for each impurity present at > 0.1% and for certain toxicologically significant impurities at < 0.1% along with explanation of how limit determined. Analytical methods to verify certified limits of each active ingredient and impurities (latter not required if exempt from requirement of tolerance or if generally recognized as safe by FDA) are fully described. Analytical methods (as discussed in #9) to verify certified limits validated as to their precision and accuracy.

- 9.
- 10.____

63 Physical and Chemical Characteristics

ACCEPTANCE CRITERIA

The following criteria apply to the technical grade of the active ingredient being reregistered.

Does your study meet the following acceptance criteria?

63-2 Color

- Verbal description of coloration (or lack of it) Any intentional coloration also reported in terms of Munsell color system

63-3 Physical State _____ Verbal description of physical state provided using terms such as "solid, granular, volatile liquid" Based on visual inspection at about 20-25° C

63-4 Odor

- Verbal description of odor (or lack of it) using terms such as "garlic-like, characteristic of aromatic compounds'
- Observed at room temperature

63-5 Melting Point

- Reported in °C Any observed decomposition reported

63-6 Boiling Point

- Reported in °C Pressure under which B.P. measured reported Any observed decomposition reported

- 63-7 Density, Bulk Density, Specific Gravity _____ Measured at about 20-25° C _____ Density of technical grade active ingredient reported in g/ml or the specific gravity of liquids reported with reference to water at 20° C. [Note: <u>Bulk</u> density of registered products may be reported in lbs/ft³ or lbs/gallon.]
- 63-8 Solubility
 - Determined in distilled water and representative polar and non-polar solvents, including those used in formulations and analytical methods for the pesticide

 - Measured at about 20-25° C Reported in g/100 ml (other units like ppm acceptable if sparingly soluble)

63-9 Vapor Pressure

- Measured at 25° C (or calculated by extrapolation from measurements made at higher temperature if pressure too low to measure at 25° C) Experimental procedure described
- Reported in mm Hg (torr) or other conventional units
- 63-10 Dissociation Constant
 - Experimental method described
 - Temperature of measurement specified (preferably about
 - 20-25°C)

- 63-11 Octanol/water Partition Coefficient _____ Measured at about 20-25° C _____ Experimentally determined and description of procedure provided (preferred method-45 Fed. Register 77350)
 - Data supporting reported value provided

63-12 pH

- Measured at about 20-25 $^\circ$ C Measured following dilution or dispersion in distilled water
- 63-13 Stability
 - Sensitivity to metal ions and metal determined Stability at normal and elevated temperatures

 - Sensitivity to sunlight determined

SUBDIVISION F

Guideline

- Study Title
- Acute Oral Toxicity in the Rat Acute Dermal Toxicity in the Rat, Rabbit or Guinea Pig Acute Inhalation Toxicity in the Rat Primary Eye Irritation in the Rabbit Primary Dermal Irritation Study Dermal Sensitization in the Guinea Pig

- 81-1 81-2 81-3 81-4 81-5 81-6

81-1 Acute Oral Toxicity in the Rat

ACCEPTANCE CRITERIA

- 1
- 3
- 4.
- 5
- 6
- Identify material tested (technical, end-use product, etc). At least 5 young adult rats/sex/group. Dosing, single oral may be administered over 24 hrs. Vehicle control if other than water. Doses tested, sufficient to determine a toxicity category or a limit dose (5000 mg/kg). Individual observations at least once a day. Observation period to last at least 14 days, or until all test animals appear normal whichever is longer. Individual body weights. Gross necropsy on all animals. 7
- 8.
- 9
- 10.

81-2 Acute Dermal toxicity in the Rat, Rabbit or Guinea Pig

ACCEPTANCE CRITERIA

- 1
- 3 *
- 4
- 5 *
- 6
- 7
- 8
- 9
- Identify material tested (technical, end-use product, etc).
 At least 5 animals/sex/group.
 Rats 200-300 gm, rabbits 2.0-3.0 kg or guinea pigs 350-450 gm.
 Dosing, single dermal.
 Dosing duration at least 24 hours.
 Vehicle control, only if toxicity of vehicle is unknown.
 Doses tested, sufficient to determine a toxicity category or a limit dose (2000 mg/kg).
 Application site clipped or shaved at least 24 hours before dosing.
 Application site covered with a porous nonirritating cover to retain test material and to prevent ingestion.
 Individual observations at least 14 days.
 Individual body weights.
 Gross necropsy on all animals. 10.
- 11
- 12
- 13.
- 14.

81-3 Acute Inhalation Toxicity in the Rat

ACCEPTANCE CRITERIA

- 1.
- Identify material tested (technical, end-use product, etc).
 Product is a gas, a solid which may produce a significant vapor hazard based on toxicity and expected use or contains particles of inhalable size for man (aerodynamic diameter 15 μm or less).
 At least 5 young adult rats/sex/group.
 Dosing, at least 4 hours by inhalation.
 Chamber air flow dynamic, at least 10 air changes/hour, at least 19% oxygen content.
 Chamber temperature, 22° C (+2°), relative humidity 40-60%.
 Monitor rate of air flow.
 Monitor actual concentrations of test material in breathing zone.
 Monitor aerodynamic particle size for aerosols.
 Doses tested, sufficient to determine a toxicity category or a limit dose (5 mg/L actual concentration of respirable substance).
 Individual observations at least 14 days.
 Individual body weights.
 Gross necropsy on all animals. 2.

- 8
- 10.
- 11
- 12
- 13.
- 14.

81-4 Primary Eye Irritation in the Rabbit

ACCEPTANCE CRITERIA

- 1
- 2.

- 6.
- Identify material tested (technical, end-use product, etc).
 Study not required if material is corrosive, causes severe dermal irritation or has a pH of < 2 or > 11.5.
 6 adult rabbits.
 Dosing, instillation into the conjunctival sac of one eye per animal.
 Dose, 0.1 ml if a liquid; 0.1 ml or not more than 100 mg if a solid, paste or particulate substance.
 Solid or granular test material ground to a fine dust.
 Eyes not washed for at least 24 hours.
 Eyes examined and graded for irritation before dosing and at 1, 24, 48 and 72 hr, then daily until eyes are normal or 21 days (whichever is shorter).
 Individual daily observations.
- 9.*

81-5 Primary Dermal Irritation Study

ACCEPTANCE CRITERIA

- Identify material tested (technical, end-use product, etc). Study not required if material is corrosive or has a pH of < 2 or > 11.5. 6 adult animals. Dosing, single dermal. Dosing duration 4 hours. Application site shaved or clipped at least 24 hours prior to dosing. Application site approximately 6 cm². Application site covered with a gauze patch held in place with nonirritating tape. Material removed, washed with water, without trauma to application site. Application site examined and graded for irritation at 1, 24, 48 and 72 hr, then daily until normal or 14 days (whichever is shorter). Individual daily observations. 10
- 11.*

81-6 Dermal Sensitization in the Guinea Pig

ACCEPTANCE CRITERIA

- 1. Identify material tested (technical, end-use product, etc).
 2. Study not required if material is corrosive or has a pH of < 2 or > 11.5.
 3. One of the following methods is utilized:

 Freund's complete adjuvant test
 Guinea pig maximization test
 Split adjuvant technique
 Buehler test
 Open epicutaneous test
 Mauer optimization test
 Footpad technique in guinea pig.

 4. Complete description of test.
 5.* Reference for test.
 6. Test followed essentially as described in reference document.
 7. Positive control included (may provide historical data conducted within the last 6 months).

Attachment 6. List of All Registrants Sent This Data Call-In (insert) Notice Attachment 7. Cost Share Data Compensation Forms, Confidential Statement of Formula Form and Instructions

Confidenti	al Business Info	Confidential Business Information: Does Not Contain National Security Information (E.O. 12065)	National Security	r Information (E.C	- H	Form Approved. OMB No. 2070-0060. Approval Expires 2/28/94/	B No. 2070	-0060. Approval	Expires 2/28/94	
\$EPA		United States Environmental Protection Agency Office of Pestington, DC 20480 Washington, DC 20480 Confidential Statement of Formula	ormula	A. Basic Formulation	tion	B. Page of		See Instruc	See Instructions on Back	
1. Name and Add	fress of Applicant/Re	1. Name and Address of Applicant/Registrant (Include ZIP Code)		2. Name and Address of Producer (Include ZIP Code)	is of Producer (I)					_
3. Product Name				4. Registration No./File Symbol		5. EPA Product Mgr ∕ Team No.	ġ	6. Country Where Formulated	Formulated	
				7. Pounds/Gal or Bulk Density		8. pH		9. Flash Point/Flame Extension	ne Extension	_
EPA USE ONLY		10. Components in Formulation (List as actually introduced into the formulation. Give commonly accepted chemical name, trade name, and CAS number.)	11. Supplier Na	11. Supplier Name & Address	12. EPA Reg. No.	ļ	onent on b. % by Weight	13. Each Component 14. Certified Limits in Formulation % by Weight a. Amount 0. % by Weight a Upper Limit b Lower Limit	15. Purpose in Formulation	
16. Typed Name	16. Typed Name of Approving Official					17. Total Weight	100%			
18. Signature of	18. Signature of Approving Official		19. Title			20. Phone	20. Phone No. (Include Area Code)	Area Code) 21. Date	te	
EPA Form 857(EPA Form 8570-4 (Rev. 12-90)	Previous editions are obsolete.	If you can photocopy t	If you can photocopy this, please submit an additional copy. White -	dditional copy. M	hite - EPA File Copy (original)	(original)	Yellow -	Applicant copy	-

Instructions for Completing the Confidential Statement of Formula

The Confidential Statement of Formula (CSF) Form 8570-4 must be used. Two legible, signed copies of the form are required. Following are basic instructions:

a. All the blocks on the form must be filled in and answered completely.

- b. If any block is not applicable, mark it N/A.
- The CSF must be signed, dated and the telephone number of the responsible party must be provided. c.
- d. All applicable information which is on the product specific data submission must also be reported on the CSF.
- e. All weights reported under item 7 must be in pounds per gallon for liquids and pounds per cubic feet for solids.
- f. Flashpoint must be in degrees Fahrenheit and flame extension in inches.
- For all active ingredients, the EPA Registration Numbers for the currently registered source products g. must be reported under column 12.
- The Chemical Abstracts Service (CAS) Numbers for all actives and inerts and all common names for h. the trade names must be reported.
- For the active ingredients, the percent purity of the source products must be reported under column 10 and must be exactly the same as on the source product's label. All the weights in columns 13.a. and 13.b. must be in pounds, kilograms, or grams. In no case will volumes be accepted. Do not mix English and metric system units (i.e., pounds and kilograms). i.
- j.
- k. All the items under column 13.b. must total 100 percent.
- All items under columns 14.a. and 14.b. for the active ingredients must represent pure active form. 1.
- The upper and lower certified limits for ail active and inert ingredients must follow the 40 CFR 158.175 m. instructions. An explanation must be provided if the proposed limits are different than standard certified limits.
- When new CSFs are submitted and approved, all previously submitted CSFs become obsolete for that n. specific formulation.

United States Environmental Protection Agency Washington, DC 20460 CERTIFICATION OF OFFER TO COST SHARE IN THE DEVELOPMENT OF DATA Approval Expires 3-31-96

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, DC 20460; and to the Office of Management and Budget, Paperwork Reduction Project (2070-0106), Washington, DC 20503.

Please fill in blanks below.

Company Name	Company Number
Product Name	EPA Reg. No.

I Certify that:

My company is willing to develop and submit the data required by EPA under the authority of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), if necessary. However, my company would prefer to enter into an agreement with one or more registrants to develop jointly or share in the cost of developing data.

My firm has offered in writing to enter into such an agreement. That offer was irrevocable and included an offer to be bound by arbitration decision under section 3(c)(2)(B)(iii) of FIFRA if final agreement on all terms could not be reached otherwise. This offer was made to the following firm(s) on the following date(s):

Name of Firm(s)	Date of Offer

Certification:

I certify that I am duly authorized to represent the company named above, and that the statements that I have made on this form and all attachments therein are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

<u> </u>

EPA Form 8570-32 (5/91) Replaces EPA Form 8580, which is obsolete

United States Environmental Protection Ag Washington, DC 20460	ency Ferm Appreved
CERTIFICATION WITH RESPECT T DATA COMPENSATION REQUIREM	OMB No. 2070-0107 2070-0057 ENTS Approval Expires 3-31-96
Public reporting burden for this collection of information is estimated to average 15 time for reviewing instructions, searching existing data sources, gathering and maint completing and reviewing the collection of information. Send comments regarding the aspect of this collection of information, including suggestions for reducing this burder Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington Management and Budget, Paperwork Reduction Project (2070-0106), Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Management and Budget, Paperwork Reduction Project (2070-0106), Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Management and Budget, Paperwork Reduction Project (2070-0106), Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Management and Budget, Paperwork Reduction Project (2070-0106), Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Washington Riesson (19. In Protection Agency, 401 M St., S.W., Kangement Agency, 401 M St.,	aining the data needed, and he burden estimate or any other in, to Chief, Information Policy ton, DC 20460; and to the Office
Please fill in blanks below.	
Company Name	Company Number
Product Name	EPA Reg. No.
Certify that:	
That for each study cited in support of registration or reregistration under FIFRA th study, I am the original data submitter, or I have obtained the written permission of have notified in writing the company(ies) that submitted data I have cited and have compensation for those data in accordance with sections 3(c)(1)(D) and 3(c)(2)(D) negotiation to determine which data are subject to the compensation requirement compensation due, if any. The companies I have notified are: (check one)	the original data submitter, or 1 offered to: (a) Pay of FIFRA: and (b) Commence
 The companies who have submitted the studies listed on the back of this for sheets, or indicated on the attached "Requirements Status and Registrants" That I have previously complied with section 3(c)(1)(D) of FIFRA for the studies I have registration or reregistration under FIFRA. 	Response Form,*
Signature	Date
iame and Title (Please Type or Print)	
ENERAL OFFER TO PAY: I hereby offer and agree to pay compensation to other p gistration or reregistration of my products, to the extent required by FIFRA sections	ersons, with regard to the 3(c)(1)(D) and 3(c)(2)(D).
ignature	·····
	Date

EPA Form \$570-31 (4-90)

APPENDIX G. FACT SHEET

United States Environmental Protection Agency Prevention, Pesticides And Toxic Substances (7508W) EPA-738-F-94-029 September 1994

Piperalin

Pesticide Reregistration All pesticides sold or distributed in the United States must be registered by EPA, based on scientific studies showing that they can be used without posing unreasonable risks to people or the environment. Because of advances in scientific knowledge, the law requires that pesticides which were first registered years ago be reregistered to ensure that they meet today's more stringent standards.

In evaluating pesticides for reregistration, EPA obtains and reviews a complete set of studies from pesticide producers, describing the human health and environmental effects of each pesticide. The Agency imposes any regulatory controls that are needed to effectively manage each pesticide's risks. EPA then reregisters pesticides that can be used without posing unreasonable risks to human health or the environment.

When a pesticide is eligible for reregistration, EPA announces this and explains why in a Reregistration Eligibility Decision (RED) document. This fact sheet summarizes the information in the RED document for reregistration case 3114, piperalin.

Use Profile

Piperalin is a fungicide used to control powdery mildew on ornamental plants, shrubs, vines and trees grown in commercial green houses. It is formulated as a soluble concentrate/liquid, and is applied as a foliar spray using a high-volume high-pressure sprayer. Use practice limitations include a recommendation to use with three specific surfactants, and prohibitions against entering treated areas without personal protective equipment (PPE) for 12 hours, applying the pesticide through any type of irrigation system, applying directly to water or wetlands, and contaminating water, food or feed.

Regulatory History

Piperalin was first registered as a pesticide in the U.S. in 1964. Currently, only one product is registered which contains this active ingredient. The product contains 84.4% piperalin and is used only to control powdery mildew on ornamentals grown in commercial greenhouses.

Human Health Toxicity

Assessment

In studies using laboratory animals, piperalin generally has been shown to be of relatively low acute toxicity. It causes only slight dermal toxicity and has been placed in Toxicity Category IV (indicating the lowest degree of acute toxicity) for this effect. It also is not a skin sensitizer. Piperalin is slightly toxic through the oral and inhalation routes, causes mild eye irritation, and causes moderate to severe skin irritation; it has been placed in Toxicity Category III for each of these effects.

Piperalin caused no systemic toxicity in a subchronic dermal toxicity study using rabbits. In a developmental toxicity study using rats, piperalin caused excessive salivation, soiled fur, decreased body weight and decreased food consumption in the mothers. The lowest observed effect level (LOEL) was the highest dose tested, based on decreased fetal body weight. A third mutagenicity test is required to confirm the Agency's finding so far that piperalin is not mutagenic.

Dietary Exposure

Piperalin has no registered food uses, so dietary exposure is not a concern.

Occupational and Residential Exposure

Based on current use patterns, workers may be exposed to piperalin during and after application in greenhouses. However, piperalin is of sufficiently low toxicity that an exposure assessment was not conducted.

Human Risk Assessment

Piperalin has no registered food uses so no dietary risks are posed. Even though applicators can be exposed to significant amounts of piperalin, this pesticide poses little toxicity concern. Workers' exposure will be minimized through product labeling requirements.

Environmental Assessment

Environmental Fate

Piperalin hydrolyzes very rapidly at pH 9 forming two degradates, DCBA or dichlorobenzoic acid and 3-(2-methylpiperidino)propyl alcohol. Microbially-mediated and chemical hydrolysis are the most significant degradative processes. In soil metabolism studies, the parent compound decreased over time while the two degradates increased.

Piperalin is immobile in several types of soil. However, additional information is needed to confirm the identity and determine the leaching potential of piperalin's degradates.

Ecological Effects

While additional studies are needed to determine its acute toxicity to birds, piperalin is practically nontoxic to birds on a subacute dietary basis. Because piperalin is only used indoors (inside greenhouses), avian reproduction studies are not required. Piperalin is highly toxic to fish and moderately toxic to aquatic invertebrates.

Ecological Effects Risk Assessment

Piperalin is practically nontoxic to birds, highly toxic to fish, and moderately toxic to aquatic invertebrates. However, birds and mammals will not be significantly exposed to piperalin through consumption of insect and plant food containing residues of this pesticide. Exposure to fish and aquatic invertebrates also is not expected to occur since piperalin is used only inside greenhouses, and since labeling prohibits use practices that would contaminate water. No significant risks to birds, fish or aquatic invertebrates are expected. Similarly, no significant risks to endangered species are expected from the use of piperalin.

Additional Data Required

EPA is requiring the following additional generic data for piperalin to confirm its regulatory assessments and conclusions: an additional mutagenicity study, data confirming the identity of the major degradates, studies to determine the leaching potential of the two major hydrolytic degradates.

The Agency also is requiring product-specific data including product chemistry and acute toxicity studies, a revised Confidential Statement of Formula (CSF) and revised labeling for reregistration.

Product Labeling Changes Required

The registered piperalin end-use product must comply with EPA's current pesticide product labeling requirements, and with the following:

Personal Protective Equipment (PPE) for Mixers/Loaders/ Applicators

There are no special toxicological concerns that warrant the establishment of active-ingredient-based PPE requirements for pesticide handlers.

Early Entry PPE

Since piperalin is of relatively low acute toxicity and the Agency has no special concerns about other adverse effects, the PPE required for early entry is coveralls, chemical-resistant gloves, shoes, and socks.

Restricted Entry Interval (REI)

The interim REI established for piperalin under the Worker Protection Standard (WPS) was 24 hours because data at that time indicated that piperalin was in Toxicity Category II for skin irritation potential. In reviewing the data, EPA determined that piperalin should be in Toxicity Category III for skin irritation potential. Therefore, piperalin must have only a 12-hour REI.

Environmental Hazard Labeling Statement

The following statement is required on end-use product labeling: "This product is toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters."

Regulatory Conclusion

Use of the currently registered product containing piperalin in accordance with approved labeling will not pose unreasonable risks or adverse effects to humans or the environment. Therefore, all uses of the product are eligible for reregistration.

This product will be reregistered once the required product-specific data, revised Confidential Statement of Formula and revised labeling are received and accepted by EPA.

For More Information

EPA is requesting public comments on the Reregistration Eligibility Decision (RED) document for piperalin during a 60-day time period, as announced in a Notice of Availability published in the <u>Federal Register</u>. To obtain a copy of the RED document or to submit written comments, please contact the Pesticide Docket, Public Response and Program Resources Branch, Field Operations Division (7506C), Office of Pesticide Programs (OPP), US EPA, Washington, DC 20460, telephone 703-305-5805.

Electronic copies of the RED and this fact sheet can be downloaded from the Pesticide Special Review and Reregistration Information System at 703-308-7224, and also can be reached on the Internet via *FEDWORLD.GOV* and EPA's gopher server, *EARTH1.EPA.GOV*.

Printed copies of the RED and fact sheet can be obtained from EPA's National Center for Environmental Publications and Information (EPA/NCEPI), PO Box 42419, Cincinnati, OH 45242-0419, telephone 513-489-8190, fax 513-489-8695.

Following the comment period, the piperalin RED document also will be available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161, telephone 703-487-4650.

For more information about EPA's pesticide reregistration program, the piperalin RED, or reregistration of individual products containing piperalin, please contact the Special Review and Reregistration Division (7508W), OPP, US EPA, Washington, DC 20460, telephone 703-308-8000.

For information about the health effects of pesticides, or for assistance in recognizing and managing pesticide poisoning symptoms, please contact the National Pesticides Telecommunications Network (NPTN). Call tollfree 1-800-858-7378, between 8:00 am and 6:00 pm Central Time, Monday through Friday.