United States Environmental Protection Agency

Prevention, Pesticides And Toxic Substances (7508W)

EPA 738-R-94-032 September 1994



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



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 chloroxylenol which includes the active ingredients chloroxylenol. The enclosed <u>Reregistration Eligibility</u> <u>Decision</u> (RED) contains the Agency's evaluation of the data base of these chemicals, 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.

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 or wish to meet with the Agency, please contact the Special Review and Reregistration Division representative Yvonne Brown at (703) 308-8073.

Sincerely yours,

Peter Caulkins, Acting Director Special Review and Reregistration Division

Enclosures

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

1. <u>DATA CALL-IN (DCI) OR "90-DAY RESPONSE"</u>--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. **Two copies of the Confidential Statement of Formula (CSF)** 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. <u>Certification With Respect to Data Compensation Requirements</u>. 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> <u>Register</u> 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. **EPA'S REVIEWS**--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

CHLOROXYLENOL

LIST C

CASE 3045

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

TABLE OF CONTENTS

	CHLO	OROX	YLEN	IOL	. RE	ERE	GI	STF	RAT	ΓΙΟ	DN	E	LI	GI	BI	Ľľ	ГҮ	D	EC	CIS	IC)N	T	EA	٩N	I	. i	i
	EXEC	UTIV	'E SUM	MM	[AR]	Y					• •	••		•			•	•			•				•		V	i
I.	INTR	ODUC	CTION	J.							••	•••		•	••		•	•			•				•		. 1	L
II.	CASE	OVE	RVIEV	W																							2)
	A.	Chen	nical O)vei	 rviev	w								•	••			•			•	•••	•				. 2)
	B.	Use F	Profile											•	••		•	•			•	•••	•				. 2)
	C.	Data	Reauir	iren	nent	ts .				•••		•••			••			•			•	•••	•	••			. 4	ļ
	D.	Regu	latory]	Hi	story	у.	•••			• •		•••	•••	•	•••	•••	•	•	•••	•••	•	•••	•	•••	•	•••	. 4	ŀ
III.	SCIE	NCE A	SSESS	SM	ENT	Г.													_								5	Ś
	A.	Physi	ical Ch	hem	nistr	v A	sse	ssm	ent					•	••		•	•			•		•				Ē	5
	B.	Hum	an Hea	alth	ı As	sess	sme	nt .				•••		•	•••					•••	•	•••	•				. 6	3
		1.	Toxic	icol	ogv	As	sess	mei	nt .																		. 6	;
			a.	4	Acut	te T	ſoxi	icity																			. 7	1
			b.	S	Subc	chre	onic	c To	oxic	itv																	. 8	3
			c.]	Deve	elop	ome	nta	l T	oxi	cit	v		•				•							•		. 8	3
			d.	I	Muta	age	enici	ity						•				•							•		. 8	3
			e.	I	Meta	abo	lisn	n.						•				•							•		. 8	3
		2.	Expo	osu	re A	lsse	ssm	ıent	t					•											•		. 9)
			a.]	Dieta	ary	•							•											•		. 9)
			b.	(Occu	upa	tior	nal a	and	l R	esi	de	nti	al				•							•		. 9	J
		3.	Risk	c As	sess	me	nt							•				•							•		. 9	J
			a.]	Dieta	ary	•							•				•							•		. 9	J
			IV.	(Occu	upa	tior	nal a	and	l R	esi	de	nti	al			•	•							•		10)
	А.	Envi	ronmen	nta	l As	sess	sme	nt.						•				•							• /		10)
		1.	Envi	iroı	nmer	nta	l Fa	ıte						•			•	•			•				•		10)
			a.]	Envi	iror	nme	enta	l C	he	mis	stry	y,	Fa	te	an	d 7	[r a	ns	po	rt				•		10)
			b.]	Envi	iror	nme	enta	l Fa	ate	A	sse	SSI	ne	nt			•							• /		10)
		2.	Ecolo	logi	cal I	Effe	ects							•			•	• •							•	••	10)
			a.]	Ecol	logi	cal	Eff	ects	s D	ata	1 .		•			•	•							•		10)
			b.]	Ecol	ogi	cal	Eff	ects	s R	isk	A	SSG	essi	me	nt	•	•	•••	•••	•	••	•	•••	•	•••	11	L
V.	RISK	MAN	AGEM	AE N	NT A	ANJ	D R	ER	EG	IS	ГR	A]	FI	ON	D	EC	CIS	510	N						•		12	?
	Α.	Deter	rminati	tion	of I	Elig	gibil	lity						•				•							•		12)
	В.	Risk	Manag	gen	nent	De	cisi	ion						•				•							•		13	3
		1.	Eligi	jibili	ity D	Deci	isio	n .						•				•							•		13	3

		2. Eligible and Ineligible Uses
	С.	Regulatory Position
		1. Labeling Rationale
VI.	АСТ	TONS REQUIRED BY REGISTRANTS
	А.	Manufacturing-Use Products
		1. Additional Generic Data Requirements
		2. Labeling Requirements for Manufacturing-Use Products 15
	В.	End-Use Products
		1. Additional Product-Specific Data Requirements
		2. Labeling Requirements for End-Use Products
	С.	Existing Stocks
VII.	APP	ENDICES
	APP	ENDIX A. Table of Use Patterns Subject to Reregistration
	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 Chloroxylenol
	APP	ENDIX D. List of Available Related Documents
	APP	ENDIX E.
		PR Notice 86-5
		PR Notice 91-2
	APP	ENDIX F. Product Specific Data Call-In
		Attachment 1. Chemical Status Sheet
		Attachment 2. Product Specific Data Call-In Response Forms (Form A
		inserts) Plus Instructions
		Attachment 3. Product Specific Requirement Status and Registrant's
		Response Forms (Form B inserts) and Instructions 95
		Attachment 4. EPA Batching of End-Use Products for Meeting Data
		Requirements for Reregistration
		Attachment 5. EPA Acceptance Criteria
		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
	APP	ENDIX G. FACT SHEET 131

CHLOROXYLENOL REREGISTRATION ELIGIBILITY DECISION TEAM

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Pesticides Branch

Agriculture Branch

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
HA	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 usually expressed

GLOSSARY OF TERMS AND ABBREVIATIONS

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.
- LD₁₀ 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.
TC	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 U.S. EPA has determined that the uses of chloroxylenol as currently registered will not cause unreasonable risk to humans or the environment and these uses are eligible for reregistration. Chloroxylenol is used as an antimicrobial for control of bacteria, algae and fungi in adhesives, emulsions, paints and wash tanks. It is also used to sanitize industrial and hospital premises and pet living quarters.

Before reregistering the products containing chloroxylenol, the Agency is requiring that product specific data, revised Confidential Statements of Formula (CSF) and revised labeling be submitted within eight months of the issuance of this document. These data include product chemistry for each registration and acute toxicity testing. After reviewing these data and any revised labels and finding them acceptable in accordance with Section 3(c)(5) of FIFRA, the Agency will reregister a product. Those products which contain other active ingredients will be eligible for reregistration only when the other active ingredients are determined to be eligible for reregistration.

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 chloroxlenol. The document consists of six sections. Section I is the introduction. Section II describes chloroxylenol, 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 chloroxylenol. Section V discusses the reregistration requirements for chloroxylenol. Finally, Section VI contains 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:** Chloro-m-xylenol or Chloroxylenol
- **Chemical Name:** 4-chloro-3,5-xylenol or p-chloro-m-xylenol
- CAS Registry 88-04-0 Number:
- OPP Chemical 086801 Code:
- Empirical C₈H₉ClO Formula:
- Basic Manufacturer: Nipa Laboratories Incorporated, Wilmington, Delaware.

B. Use Profile

The following is information on the current registered uses with an overview of use sites and application methods. A detailed table of these uses of chloroxylenol is in Appendix A.

Case:	3045
Chemical Code:	086801
Type of Pesticide:	Antimicrobial
Mechanism of Action:	denatures proteins, inactivates enzymes

Use Sites:

OUTDOOR RESIDENTIAL	Pet living/sleeping quarters
INDOOR NONFOOD	Industrial adhesives, commercial/institutional/industrial premises/ equipment, resin/latex/polymer emulsions, latex (in-can) paints and photographic wash tanks
INDOOR MEDICAL	Hospitals/medical institutions premises
INDOOR FOOD	Industrial adhesives
INDOOR RESIDENTIAL	Bathroom premises/hard surfaces, diaper pails (empty), household/ domestic dwellings contents and premises, human bedding/ mattresses, human footwear, pet living/sleeping quarters, refuse/ solid waste containers (garbage cans)
Target Pests:	Slime-forming bacteria, algae, and fungi; <u>Salmonella</u> choleraesuis; <u>Staphylococcus</u> aureus; <u>Pseudomonas</u> aeruginosa; <u>Streptococcus</u> <u>pyogenes</u> ; pathogenic fungi (<u>Trichophyton</u> <u>mentagrophytes</u>); Viruses: Vaccinia, Herpes simplex Type 2, Influenza A ₂ (Hong Kong); mold/mildew
Formulation Types Registered:	Single Active Ingredient Products Soluble concentrate/liquid3% Technical formulation100% Formulation intermediate /solid98% Multiple Active Ingredient (AI) Product
Method and Rates of Application:	Pressurized liquid0.047 to 0.1% + 3 other AI Soluble concentrate/liquid Directly treat equipment by squirt bottle (30,000 ppm), then dilute with water to 0.02 fl oz AI/gal (159 ppm).
	Pressurized liquid Spray 5 to 6 seconds by aerosol can until thoroughly wet and allow 10 min contact time.

Formulation intermediate/solid

"During manufacture of adhesives, paints, etc., incorporate into product as a preservative at 0.05 to 0.5% AI of weight of product."

Use Practice Limitations: Do not discharge effluent containing this chemical into lakes, streams, ponds, estuaries, oceans, or public waters unless specifically identified and addressed in an NPDES permit. Do not discharge this chemical to sewer systems without previously notifying the sewage treatment plant authority.

C. Data Requirements

Data requirements for reregistration apply to all currently registered uses. Appendix B includes all data requirements identified by the Agency for currently registered uses, including technical chemistry, toxicology, and environmental fate and ecological effects.

D. Regulatory History

Chloroxylenol was first registered in the United States in 1959, for use as a fungicide. Products used as disinfectants and sanitizers have subsequently been registered. Currently, there are two manufacturing-use products and five end-use products registered for use in household and domestic dwellings, laundry equipment, bathroom premises, diaper pails, hospitals and related institutional areas and equipment, and human footwear. Chloroxylenol may also be used in industrial processing water and aqueous systems such as adhesives/binders, latex paints, polymer emulsions, coatings and photographic wash tanks.

Chloroxylenol has FDA clearance for use as a preservative in food packaging adhesives under 21 CFR Section 175.105 (c) (5).

The antimicrobial Data Call-in Notice of March 1987 was issued by Registration Division for the manufacturing-use product for Chloroxylenol for chronic and subchronic toxicity data on human exposure.

Technical Chemistry data were called in by the Special Review and Reregistration Division under the Dioxin/Furan Data Call-In in 1988.

III. SCIENCE ASSESSMENT

A. Physical Chemistry Assessment

The physical chemical properties for the technical grade active ingredient chloroxylenol are described below.

Color: White to Buff

Physical State: Crystalline powder

Chemical Structure:



Odor:	Slight phenolic odor
Molecular Weight:	156.65
Melting Point:	112-116°C
Boiling Point:	246°C
Density:	0.89 g/ml at 20°C
Vapor Pressure:	0.1 mm Hg at 20°C
Dissociation constant:	1.7×10^{-10}
pH:	6.45 at 20°C (after dispersion in distilled water)
Stability:	Chloroxylenol is stable when exposed to sunlight and humidity from ambient storage over 24 hrs. It is also stable at elevated temperatures ($54^{\circ}C \pm 2^{\circ}C$).
Corrosion characteristics:	At ambient temperature, a 25% solution of chloroxylenol in isopropanol is not corrosive to stainless steel or aluminum. Brass is slightly affected as is mild steel, but the latter is

slightly affected by the isopropanol alone.

Name of the solvent	15°C	25°C	100°C
Water	0.03		0.5
Petroleum ether	0.5		
Benzene	6.0		
Acetone	58.0		
Toluene	7.0		
IMS	55.0	86.6	
Chloroform	6.2		
Isopropanol	38.0	50.0	
1M NaOH		8.8	
Glycerine		1.5	

Solubilities of chloroxylenol in g/100 ml of different solvents

Dioxins:

Solubility:

Because of the chemistry of this compound, the Agency was concerned with the potential formation of dioxins and chlorinated dioxin impurities during the manufacture of this chemical and the effect on human health and the environment. The registrant submitted appropriate data to address this issue. After reviewing these data the Agency has concluded that the reaction conditions during manufacturing are not appropriate for the creation of dioxin or chlorinated dioxins/dibenzofurans. Additionally, no chlorinated dioxins were found at the stated limit of detection of 1 ppb. Therefore no additional information or data are required for choroxylenol (MRID#s 40937401, 40725501).

B. Human Health Assessment

1. Toxicology Assessment

The toxicological data base on chloroxylenol is adequate and supports reregistration eligibility.

a. Acute Toxicity

TEST	RESULT	CATEGORY ¹
Acute Oral - rat	$LD_{50} = 3.83 \text{ g/kg}$	III
Acute Dermal - rat	$LD_{50} > 2.0 \text{ g/kg}$	III
Acute Inhalation - rat	LC ₅₀ > 6.29 mg/L	IV
Eye Irritation - rabbit	corneal opacity, severe irritation	Ι
Skin Irritation - rabbit	slight irritation	IV
Skin Sensitization - guinea pig	no sensitization	
Skin Sensitization - human	no sensitization	

ACUTE TOXICITY OF CHLOROXYLENOL

Toxicity Category I: high acute toxicity

Toxicity Category III: moderate acute toxicity

Toxicity Category IV: low acute toxicity

Chloroxylenol has moderate to low oral, dermal, and inhalation acute toxicity. In an acute oral toxicity study with rats the LD₅₀ was determined to be 3.83 g/kg (toxicity category III) (MRID 40223120; guideline 81-1). In another acute oral toxicity study with rats, the LD₅₀ was greater than 5 g/kg (MRID 00147438; guideline 81-1). An acute dermal toxicity study in rats resulted in an LD₅₀ greater than 2.0 g/kg (toxicity category III) (MRID 00137439; guideline 81-2). An acute inhalation toxicity study in rats showed an LC₅₀ greater than 6.29 mg/L (toxicity category IV) (MRID 00137440; guideline 81-3).

Chloroxylenol is highly toxic (toxicity category I) in acute irritation studies. An eye irritation study in rabbits found mild to severe corneal opacity in unwashed eyes, with irritation that persisted for 14 days; eyes washed after four seconds had mild to moderate erythema, edema, and discharge without corneal damage, all of which subsided in five days (MRID 00069585; guideline 81-4). Another rabbit eye study, with a 30 percent solution, found marked corneal opacity that was not reversed in 72 hours (MRID 00092252; guideline 81-4). A third rabbit eye study concluded that chloroxylenol was corrosive (MRID 00137441; guideline 81-4). Chloroxylenol does not appear to be a dermal irritant or sensitizer. A dermal irritation study with rabbits showed slight irritation lasting less than 48 hours (toxicity category IV) (MRID 00137442; guideline 81-5). Chloroxylenol did not produce dermal sensitization in guinea pigs (MRID 41886601; guideline 81-6). A repeated insult patch test with humans showed no skin sensitization or irritation (MRID 40223125).

b. Subchronic Toxicity

A subchronic dermal study was conducted with albino rabbits. Part of the animals at each dose were treated for 21 days and part for 90 days. The dose levels were 0, 18, or 180 mg/kg/day of chloroxylenol. The systemic NOEL was 180 mg/kg/day and the NOEL for skin irritation was 18 mg/kg/day. The LOEL for skin effects was 180 mg/kg/day, where erythema, coriaceous areas, and fissuring were found (guidelines 82-2, 82-3; MRID 00066995).

c. Developmental Toxicity

A developmental toxicity study was conducted in Sprague Dawley rats with dose levels of 0, 100, 500, or 1000 mg/kg given by gavage on gestation days 6-15. The maternal NOEL was 100 mg/kg/day. The maternal LOEL was 500 mg/kg/day, based on decreased weight gain and food consumption. There were deaths at the high dose. The NOEL for developmental toxicity was 1000 mg/kg/day, the highest dose (Guideline 83-3; MRID 42002702).

d. Mutagenicity

An Ames mutagenicity study in <u>Salmonella</u> <u>typhimurium</u> concluded chloroxylenol was negative for inducing reversion in the standard strains, with and without activation (MRID 41310301). In a test of unscheduled DNA synthesis in primary rat hepatocytes, the chemical did not induce a genotoxic effect up to cytotoxic levels (MRID 40704101). No evidence of mutagenicity or genetic toxicity was found in an <u>in vivo</u> mouse micronucleus assay (MRID 41085301). (These studies fill guidelines 84.)

e. Metabolism

Tests of a 25 percent solution of chloroxylenol with Sprague Dawley rats demonstrated the chemical was practically all eliminated in the first 24 hours, mostly in the urine, with small amounts in feces, after oral or dermal exposure. Following dermal exposure, about half of the material was not absorbed. High concentrations were found in the tissues of the kidney, which indicates excretion in urine. Concentrations in the lungs indicates some elimination in expired air. In another study, beagle dogs dosed orally excreted virtually all of the chloroxylenol in their urine within 24 hours. A small amount was present in feces, but essentially none remained in any tissue. The chemical was excreted in conjugated form with little free chloroxylenol (Guideline 85-1; MRID 40223102).

2. Exposure Assessment

a. Dietary

There are no food or animal feed uses of chloroxylenol. Therefore, the Agency expects there to be no dietary exposure.

b. Occupational and Residential

Based on the use information, the potential dermal and inhalation exposures to applicators, mixers, and loaders can be significant, i.e., as a medical disinfectant using spray application methods, or as a preservative using the open pouring application method. While there may be some secondary exposure, e.g., to residents, to chloroxylenol after application of end-use products, the Agency believes the likely exposures are significantly less than for mixers, loaders and applicators, of products because of the use patterns.

3. Risk Assessment

a. Dietary

Since this chemical is not applied to food or feed crops or in food handling establishments no dietary risk is expected.

One exception to this is the use as a food packing adhesive under FDA purview under 21 CFR Section 175.105(c) (5). The Agency defers to FDA regarding this use and any related exposure and risk.

IV. Occupational and Residential

Except for eye irritation, no toxicological endpoints of concern for acute, short term or chronic exposure to chloroxylenol through occupational or residential exposure have been identified. Personal protective equipment requirements may be appropriate for the end use products based on their acute toxicity. At this time, however the Agency does not believe additional personal protective equipment requirements are necessary.

A. Environmental Assessment

1. Environmental Fate

The Agency used information from the open chemical literature (Streitweiser and Heathcock, Introduction to Organic Chemistry, 2nd ed., 1981) to predict the fate of chloroxylenol in the environment.

a. Environmental Chemistry, Fate and Transport

Chloroxylenol is hydrolytically stable, in the typical range of environmental pH values, and is a weak acid, with a pKa value of 9.0.

b. Environmental Fate Assessment

The Agency does not anticipate significant environmental exposure with chloroxylenol based on the limited outdoor use--pet living quarters.

2. Ecological Effects

a. Ecological Effects Data

The Agency has the minimum data base to assess the potential ecotoxicity of chloroxylenol. The results of the studies, described below, suggest chloroxylenol has low to high toxicity depending on the test species.

Test Species	Results	MRID Number	Conclusions
Bobwhite Quail	LD ₅₀ > 2250 mg/Kg	00145647	practically nontoxic
Mallard Duck	LC ₅₀ > 5620 ppm	00145646	practically nontoxic
Bobwhite Quail	LC ₅₀ > 5620 ppm	00144377	practically nontoxic
Rainbow Trout	LC ₅₀ > 0.76 ppm	41536903	highly toxic
Daphnia magna	$EC_{50} = 7.7 \text{ mg/l}$	00144380	moderately toxic

Ecological Effects Data For Chloroxylenol

The results of a single avian acute oral toxicity study that chloroxylenol study suggest that chloroxylenol is practically non-toxic to Bobwhite Quail on an acute oral basis (MRID 00145647). Results from two dietary studies on the bobwhite quail and the mallard duck revealed LC_{50} values greater than 5620 ppm. Based on the data chloroxylenol can be classified as practically non-toxic to birds on a dietary basis. (MRIDs 00145646, 00144377). From an acute toxicity study with Rainbow trout, chloroxylenol can be classified as highly toxic to freshwater fish. (MRID 0041536903). Chloroxylenol can be classified as moderately toxic to aquatic invertebrates, based on an acute toxicity study with *Daphnia magna* (MRID 00144380). Due to the use pattern, which is mostly indoor, plants and non-target insects are not expected to be exposed to chloroxylenol.

b. Ecological Effects Risk Assessment

Although chloroxylenol is classified as practically nontoxic to birds, highly toxic to fish, and moderately toxic to freshwater invertebrates, there are mitigating factors which support the conclusion that exposure to terrestrial and aquatic organisms is extremely minimal. The majority of registered uses of chloroxylenol being supported for reregistration are mostly for indoor use. The only current outdoor use is application to pet living quarters which would not result in significant environmental exposure. Therefore, when used according to label directions the risk to terrestrial and aquatic organisms is minimal.

V. 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 chloroxylenol 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 chloroxylenol. Appendix B identifies the generic data requirements that the Agency reviewed as part of its determination of reregistration eligibility of chloroxylenol, 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 chloroxylenol and to determine that chloroxylenol can be used without resulting in unreasonable adverse effects to humans and the environment. The Agency therefore finds, when used as directed in this document, that all products containing chloroxylenol as the active ingredients 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 chloroxylenol 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 chloroxylenol, if new information comes to the Agency's attention or if the data requirements for registration (or the guidelines for generating such data) change.

B. Risk Management Decision

1. Eligibility Decision

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

The Agency has determined that chloroxylenol products, labeled and used as specified in this Reregistration Eligibility Decision, are not expected pose an unreasonable risk or adverse effect to humans or the environment.

2. Eligible and Ineligible Uses

The Agency has determined that all uses of chloroxylenol are eligible for reregistration.

C. Regulatory Position

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

1. Labeling Rationale

a. Discharge Limitations

Chloroxylenol is classified as highly toxic to fish and moderately toxic to freshwater invertebrates. Although the Agency expects the exposure to aquatic organisms to be extremely minimal it is requiring labelling language to require discharge of effluent into bodies of water in accordance with the requirement of a " Discharge Elimination System (NPDES) permit as described below." in section V. A. 2. and section V. B. 2.

b. Personal Protective Equipment (PPE) for Handlers (Mixers/Loaders/Applicators)

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

- If the Agency has no special concerns about the acute or other adverse effects of an active ingredient, the PPE for pesticide handlers will be based on the acute toxicity of the end-use product.
- If the Agency 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.):
 - In the RED for the active ingredient, the Agency may establish minimum or "baseline" handler PPE requirements 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;
 - The more stringent choice for each type of PPE (e.g., bodywear, hand protection, footwear, eyewear, etc.) must be placed on the label of the end-use product.

Because the Agency has no special concerns at this time for the toxicity potential of the active ingredient there will be no minimum baseline personal protective equipment, no new reentry restrictions or any new labeling for mixers/loaders/applicators of the chloroxylenol.

Upon receipt and review of end-use product acute toxicity data for the current products or for new proposed products containing the subject active ingredient, the Agency may determine that PPE is appropriate.

c. Entry Restrictions for Occupational-Use Products (Non WPS uses)

Exposure to the chloroxylenol from treated products, such as emulsions, latex paints, or adhesives is expected to occur.

However, the Agency believes that such exposure to chloroxylenol would be negligible because of dilution and therefore special restrictions are not warranted.

d. Formulation Type Identification

All products must specify their formulation type and percent of active ingredient on their labels.

VI. 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 chloroxylenol for the above eligible uses has been reviewed and determined to be substantially complete.

2. Labeling Requirements for Manufacturing-Use Products

"This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA".

In addition products must specify their formulation type and percent of active ingredient on the label.

All affected products distributed or sold by registrants and distributors (supplemental registrants) must bear the above labeling by October 1, 1995. All products distributed or sold by persons other than registrants or supplemental registrants after October 1, 1997 must bear the correct labeling. Refer to PR Notice 93-10 or 40 CFR 152.46(a)(1) for additional information.

B. End-Use Products

All end-use products must specify their formulaton type and percent of active ingredient on their labels.

1. Additional Product-Specific Data Requirements

Section 4(g)(2)(B) of FIFRA calls for the Agency to obtain any needed product-specific 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

End-Use Product Labeling Requirements for Products with Outdoor Use (pet living quarters)

"This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate."

Labeling Requirements for Indoor Nonfood and/or Indoor Medical Use (non-residential)

"This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA".

Effluent Discharge Labeling Statements

Refer to subsection A. above for applicable due dates for this labeling requirements for effluent discharge.

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 chloroxylenol 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.

VII. APPENDICES

APPENDIX A. Table of Use Patterns Subject to Reregistration

Date 08/11/94 - Time 14:27		APPENDIX A	- CASE 304	5, [p-	-Chlor	0-m-x3	/lenol]	Chem	ical 0	86801 	[4-Chlo	pro-3,5-xylenol]	LUIS 1.5 - Page 1
SITE Application Type, Application For Timing, Application Equipment - Surface Type (Antimicrobial only) & Effica- cy Influencing Factor (Antimicrobial only)	rm(s) -	Min. Appl. Rate (AI un- less noted otherwise)	Max. Appl. Rate (AI unless noted otherwise)	Soil Tex. Max. Dose	Max. @ Max /crop cycle	# App: . Rate /year	s Max. e unles r other /crop cvcle	Dose ss not wise) p /	[(AI ed /A] year	Min. Interv (days)	Restr. Entry Interv [day(s	Geographic Limitations Allowed Disallowed ; ;)]	Use Limitations Codes
USES ELIGIBLE FOR REREGISTRATION							- 1						
NON-FOOD/NON-FEED													
ADHESIVES, INDUSTRIAL			Use	Group:	: INDO	OR NO	N-FOOD						
Industrial preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 490	W 5	5000	*	NS	NS		NS	NS	NS	NS	C18, C24
Preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 490	W 5000	*	NS	NS		NS	NS	NS	NS		C18, C24
BATHROOM PREMISES/HARD SURFACES			Use	Group	INDC	OR RES	SIDENTI	IAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 470	W 470	*	NS	NS		NS	NS	NS	NS		A08, A10(10)
	PRL	W 1000	W 10	000	*	NS	NS	1	NS	NS	NS	NS	A10(10), A30
COMMERCIAL/INSTITUTIONAL/INDUSTRIAL PREMISES,	/EQUIP	. (INDOOR)	Use	Group:	INDC	OR NOI	N-FOOD						
Equipment treatment., Not on label., Squirt bottle., Not Applicable., Not applicable for this use.	SC/L	V 159	V 30,00	0 *	NS	NS		NS	NS	NS	NS		A08
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 470	W 470	*	NS	NS		NS	NS	NS	NS		A06, A08, A10(10)
DIAPER PAILS (EMPTY)			Use	Group	: INDC	OR RES	SIDENTI	IAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS		NS	NS	NS	NS		A10(10), A30
EMULSIONS, RESIN/LATEX/POLYMER			Use	Group:	INDC	OR NOI	N-FOOD						
Preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 490	W 5000	*	NS	NS		NS	NS	NS	NS		C18, C24
HOSPITALS/MEDICAL INSTITUTIONS PREMISES (HUMA	AN/VET	ERINARY)	Use	Group:	INDC	OR MEI	DICAL						
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 470	W 470	*	NS	NS		NS	NS	NS	NS		A08, A10(10)
HOUSEHOLD/DOMESTIC DWELLINGS CONTENTS			Use	Group	INDO	OR RES	SIDENTI	IAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS		NS	NS	NS	NS		A10(10), A30
Date 08/11/94 - Time 14:27		APPENDIX A	- CASE 30	45, []	p-Chlo	ro-m-xy	ylenol] Chemica	al 08	86801	[4-Chlor	ro-3,5-xylenol]	LUIS 1.5 - Page 2	
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SITE Application Type, Application For Timing, Application Equipment - Surface Type (Antimicrobial only) & Effica- cy Influencing Factor (Antimicrobial only)	===== m(s)	Min. Appl. Rate (AI un- less noted otherwise)	Max. Appl Rate (A unless note otherwise	. Soi I Tex d Max) Dos	1 Max. . @ Ma . /cro e cycl	# Apps x. Rate p /yean e	Max. Dose [() e unless noted r otherwise)/A /crop /yea cycle	AI I I J (ar	Min. Minerv (days)	Restr. Entry Interv [day(s)	Geographic Limitations Allowed Disallowed)]	Use Limitations Codes	
USES ELIGIBLE FOR REREGISTRATION													
NON-FOOD/NON-FEED (con't)													
HOUSEHOLD/DOMESTIC DWELLINGS INDOOR PREMISES			Use	Grou	p: IND	OOR RES	SIDENTIAL						
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS	NS	NS	NS	NS		A10(10), A30	
HUMAN FOOTWEAR			Use	Grou	p: IND	OOR RES	SIDENTIAL						
Spray., Not on label., Aerosol can., Porous., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS	NS	NS	NS	NS		A10(10), A30	
PAINTS, LATEX (IN-CAN)			Use	Grou	p: IND	OOR NON	N-FOOD						
Preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 980	W 5000	*	NS	NS	NS	NS	NS	NS		C18, C24	
PET LIVING/SLEEPING QUARTERS			Use	Grou	p: IND	OOR RES	SIDENTIAL						
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 100	0 *	NS	NS	NS	NS	NS	NS		A10(10), A30	
PET LIVING/SLEEPING QUARTERS			Use	Grou	p: OUT	DOOR RI	ESIDENTIAL						
Spray., Not on label., Aerosol can., Not Applicable., Not applicable for this use.	PRL	W 1000	W 100	0 *	NS	NS	NS	NS	NS	NS		A10(10), A30	
REFUSE/SOLID WASTE CONTAINERS (GARBAGE CANS)			Use	Grou	p: IND	OOR RES	SIDENTIAL						
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 100	0 *	NS	NS	NS	NS	NS	NS		A10(10), A30	

Spray., Not on label., Aerosol can., Hard., PRL W 470

A08, A10(10)

LEGEND								
HEADER ABBREVIATIONS Min. Appl. Rate (AI unless : noted otherwise)	Minimum dose f	for a single applicat	ion to a single si	ite. System	calculated.	Microbial clai	ims only.	
Max. Appl. Rate (AI unless :	Maximum dose f	for a single applicat	ion to a single si	te. System	calculated.			
Soil Tex. Max. Dose :	Maximum dose f	for a single applicat	ion to a single si	ite as relate	d to soil te:	xture (Herbicio	de claims only).	
Max. # Apps @ Max. Rate :	Maximum number vears" is expr	: of Applications at ressed as "4/3 vr"	Maximum Dosage Rat	e. Example:	"4 applicat:	ions per year"	is expressed as "4	/1 yr"; "4 applications per 3
Max. Dose [(AI unless :	Maximum dose a	applied to a site over	r a single crop cy	vcle or year.	System cal	culated.		
Min. Interv (days) : Restr. Entry Interv (days) :	Minimum Interv Restricted Ent	val between Applicatio cry Interval (days)	ons (days)					
SOIL TEXTURE FOR MAX APP. RA	ATE							
* : Non-specific								
M : Medium								
F : Fine O : Others								
FORMULATION CODES FM/S : FORM NOT IDENTIFIE	ED/SOLID							
PRL : PRESSURIZED LIQUIE								
SC/L · SOLUBLE CONCENTRAL	IE/LIQUID							
ABBREVIATIONS								
NA : Not Applicable								
NS : Not Specified (on	label)	(on label) or with o	ne of following un	ite: bag ba	it bait blo	ck bait pack	bait station bait	station(s) block bridget
briquets, bursts,	cake, can, cani	ster, capsule, cartr	idges, coil, colla	ar, container	, dispenser,	drop, eartag,	grains, lure, pack	, packet, packets, pad, part,
parts, pellets, pi	lece, pieces, pi	.11, pumps, sec, sec)	burst, sheet, spik	ke, stake, st	ick, strip, 1	tab, tablet, ta	ablets, tag, tape,	towelette, tray, unit,
APPLICATION RATE								
No Calc : No Calculation car	Calculated 1 be made							
W : PPM calculated by	weight							
v : PPM Calculated by cwt : Hundred Weight	volume							
nnE-xx : nn times (10 power	r -xx); for inst	ance, "1.234E-04" i	s equivalent to ".	.0001234"				
USE LIMITATIONS CODES								
A06 : Potable water rinse (r	non-residual cla	۱im).						
All : minute(s) contact t	ime.							
C18 : Do not discharge efflu	ent containing	this pesticide into a	sewage systems wit	hout notifyi	ng the sewage	e treatment pla	ant authority.	
* NUMBER IN PARENTHESES REPR	lent containing RESENTS THE NUME	BER OF TIME UNITS (HO	kes, streams, pond URS,DAYS, ETC.) DE	IS, ESTUATIES ESCRIBED IN 1	, oceans, or HE LIMITATIO	N.	(NPDES license re	striction)
cy Influencing Factor (Antimic	crobial only)	otherwise)	otherwise) Dose cy	ycle /c	rop /year	[day(s	s)]	
					cycie			
USES ELIGIBLE FOR REREGISTRATI	ION							
NON-FOOD/NON-FEED								
ADHESIVES, INDUSTRIAL			Use Group:	INDOOR NON-	FOOD			
Industrial preservative treatm manufacture., Not on label., M Applicable., Not applicable for	ment., During Not or this use.	FM/S W 490	W 5000	* NS	NS NS	5 NS NS	NS	C18, C24
Preservative treatment., Durin manufacture., Not on label., M Applicable., Not applicable for	ng Not or this use.	FM/S W 490	W 5000 *	NS NS	NS	NS NS 1	NS	C18, C24
BATHROOM PREMISES/HARD SURFACE	IS		Use Group:	INDOOR RESI	DENTIAL			

W 470

* NS NS

NS NS

NS

NS

Not	applicable	for	this	use.
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	PRL	W 1000	W 1000)	* N	IS NS	NS		NS 1	NS	NS	A10(10), A30
COMMERCIAL/INSTITUTIONAL/INDUSTRIAL PREMISES	/EQUIF	. (INDOOR)	Use Gro	oup:	INDOC	OR NON-FOOD						
Equipment treatment., Not on label., Squirt bottle., Not Applicable., Not applicable for this use.	SC/L	V 159	V 30,000	*	NS	NS	NS	NS	NS	NS	5	808
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 470	W 470	*	NS	NS	NS	NS	NS	NS	;	A06, A08, A10(10)
DIAPER PAILS (EMPTY)			Use Gro	oup:	INDOC	OR RESIDENTI	AL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS	NS	NS	NS	NS	3	A10(10), A30
EMULSIONS, RESIN/LATEX/POLYMER			Use Gro	oup:	INDOC	OR NON-FOOD						
Preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 490	W 5000	*	NS	NS	NS	NS	NS	NS	5	C18, C24
HOSPITALS/MEDICAL INSTITUTIONS PREMISES (HUM	AN/VEI	ERINARY)	Use Gro	oup:	INDOC	OR MEDICAL						
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 470	W 470	*	NS	NS	NS	NS	NS	NS	3	A08, A10(10)
HOUSEHOLD/DOMESTIC DWELLINGS CONTENTS			Use Gro	sup:	INDOC	OR RESIDENTI	AL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*	NS	NS	NS	NS	NS	NS	3	A10(10), A30

Date 08/11/94 - Time 14:27		APPENDIX A	- CASE 3045	, [p-	Chlor	o-m-xy	lenol] Chemica	al 0	86801	[4-Chlor	o-3,5-xylenol]	LUIS 1.5 - Page 2
SITE Application Type, Application Fo Timing, Application Equipment - Surface Type (Antimicrobial only) & Effica cy Influencing Factor (Antimicrobial only)	orm(s) 	Min. Appl. Rate (AI un- less noted otherwise)	Max. Appl. Rate (AI unless noted otherwise)	Soil I Tex. Max. Dose	Max. @ Max /crop cycle	# Apps . Rate /year	Max. Dose [(A unless noted otherwise)/A] /crop /yea cycle	AI] ar	Min. Interv (days)	Restr. Entry Interv [day(s)	Geographic Limitations Allowed Disallower]	Use 1 Limitations Codes
USES ELIGIBLE FOR REREGISTRATION												
NON-FOOD/NON-FEED (con't)												
HOUSEHOLD/DOMESTIC DWELLINGS INDOOR PREMISES	;		Use G	roup:	INDO	OR RES	IDENTIAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*]	NS	NS	NS	NS	NS	NS		A10(10), A30
HUMAN FOOTWEAR			Use G	roup:	INDO	OR RES	IDENTIAL					
Spray., Not on label., Aerosol can., Porous., Not applicable for this use.	PRL	W 1000	W 1000	*]	NS	NS	NS	NS	NS	NS		A10(10), A30
PAINTS, LATEX (IN-CAN)			Use G	froup:	INDO	OR NON	-FOOD					
Preservative treatment., During manufacture., Not on label., Not Applicable., Not applicable for this use.	FM/S	W 980	W 5000	*]	NS	NS	NS	NS	NS	NS		C18, C24
PET LIVING/SLEEPING QUARTERS			Use G	froup:	INDO	OR RES	IDENTIAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*]	NS	NS	NS	NS	NS	NS		A10(10), A30
PET LIVING/SLEEPING QUARTERS			Use G	froup:	OUTD	OOR RE	SIDENTIAL					
Spray., Not on label., Aerosol can., Not Applicable., Not applicable for this use.	PRL	W 1000	W 1000	*]	NS	NS	NS	NS	NS	NS		A10(10), A30
REFUSE/SOLID WASTE CONTAINERS (GARBAGE CANS)			Use G	froup:	INDO	OR RES	IDENTIAL					
Spray., Not on label., Aerosol can., Hard., Not applicable for this use.	PRL	W 1000	W 1000	*]	NS	NS	NS	NS	NS	NS		A10(10), A30

LEGEND ===== HEADER ABBREVIATIONS Min. Appl. Rate (AI unless : Minimum dose for a single application to a single site. System calculated. Microbial claims only. noted otherwise) Max. Appl. Rate (AI unless : Maximum dose for a single application to a single site. System calculated. noted otherwise) : Maximum dose for a single application to a single site as related to soil texture (Herbicide claims only). Soil Tex. Max. Dose Max. # Apps @ Max. Rate : Maximum number of Applications at Maximum Dosage Rate. Example: "4 applications per year" is expressed as "4/1 yr"; "4 applications per 3 years" is expressed as "4/3 yr" Max. Dose [(AI unless : Maximum dose applied to a site over a single crop cycle or year. System calculated. noted otherwise)/A] 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 : Medium М F : Fine 0 : Others FORMULATION CODES FM/S : FORM NOT IDENTIFIED/SOLID PRL : PRESSURIZED LIQUID 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 : Dosage Can Not be Calculated DCNC No Calc : No Calculation can be made W : PPM calculated by weight V : PPM Calculated by volume : Hundred Weight cwt nnE-xx : nn times (10 power -xx); for instance, "1.234E-04" is equivalent to ".0001234" USE LIMITATIONS CODES A06 : Potable water rinse (non-residual claim). A08 : Preclean claim. A10 : ___ minute(s) contact time. C18 : Do not discharge effluent containing this pesticide into sewage systems without notifying the sewage treatment plant authority. C24 : Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public water. (NPDES license restriction) * 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 covered by this Reregistration Eligibility Decision Document. It contains generic data requirements that apply to 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 Chloroxylenol

REQUIREMENT		USE PATTERN	CITATION(S)					
PRODUCT CHEMISTRY								
61-1	Chemical Identity	MNO	40725501, 40937401					
61-2A	Start. Mat. & Mnfg. Process	MNO	40725501, 40973401					
61-2B	Formation of Impurities	MNO	40725501					
62-1	Preliminary Analysis	MNO	40725501					
62-2	Certification of limits	MNO	40725501, 40937401					
62-3	Analytical Method	MNO	40725501					
63-2	Color	MNO	40725501					
63-3	Physical State	MNO	40725501					
63-4	Odor	MNO	40725501					
63-5	Melting Point	MNO	43322201, 40725501					
63-6	Boiling Point		N/A					
63-7	Density	MNO	43322202, 40725501					
63-8	Solubility	MNO	43322203, 40725501					
63-9	Vapor Pressure	MNO	43322204					
63-10	Dissociation Constant	MNO	43322205, 40725501					
63-12	рН	MNO	43322206					
63-13	Stability	MNO	40725501, 43294801					
63-17	Storage stability	MNO	40725501					

REQUIRE	MENT	USE PATTERN	CITATION(S)
63-20	Corrosion characterist	MNO	40725501
ECOLO	GICAL EFFECTS		
71-1A	Acute Avian Oral - Quail/Duck	MNO	00145647
71-2A	Avian Dietary - Quail	MNO	00144377
71-2 B	Avian Dietary - Duck	MNO	00145646
72-1A	Fish Toxicity Bluegill	MNO	41670403
72-1C	Fish Toxicity Rainbow Trout	MNO	41536903
72-2A	Invertebrate Toxicity	MNO	00144380
TOXICO	LOGY		
81-1	Acute Oral Toxicity - Rat	MNO	402231209, 00137438
81-2	Acute Dermal Toxicity - Rabbit/Rat	MNO	00137439
81-3	Acute Inhalation Toxicity - Rat	MN0	00137440
81-4	Primary Eye Irritation - Rabbit	MNO	00137441, 00092252, 00069585
81-5	Primary Dermal Irritation - Rabbit	MN0	00137442
81-6	Dermal Sensitization - Guinea Pig	MNO	41886601
82-1A	90-Day Feeding - Rodent	MNO	00141330
82-2	21-Day Dermal - Rabbit/Rat	MNO	00066995
82-3	90-Day Dermal - Rodent	MNO	00066995
83-3A	Developmental Toxicity - Rat	MNO	42002702
84-2A	Gene Mutation (Ames Test)	MNO	41310301

Data Supporting Guideline Requirements for the Reregistration of Chloroxylenol

REQUIREN	MENT	USE PATTERN	CITATION(S)
84-2B	Structural Chromosomal Aberration	MNO	41085301
84-4	Other Genotoxic Effects	MNO	41085301
85-1	General Metabolism	MNO	00063125
OCCUPA	TIONAL/RESIDENTIAL EXPOS	SURE	
160-5	Chemical Identity	MNO	40937401
161-1	Hydrolysis	MNO	SATISFIED

Data Supporting Guideline Requirements for the Reregistration of Chloroxylenol

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

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.

MRID

CITATION

- 00137438 Cummins, H.; Gardner, J. (1983) 4-Chloro-3.5-xylenol (PCMX): Acute Oral Toxicity in the Rat: LSR Report No. 83/BTP024/244. (Unpublished study received Dec 27, 1983 under 49403-1; prepared by Life Science Research, Eng., submitted by Nipa Laboratories, Inc., Wilmington, DE; CDL:252039-A)
- 00137439 Cummins, H.; Gardner, J. (1983) 4 Chloro-3.5-xylenol (PCMX): Acute Percutaneous Toxicity in the Rat: LSR Report No. 83/BTP025/245. (Unpublished study received Dec 27, 1983 under 49403-1; prepared by Life Science Research, Eng., submitted by Nipa Laboratories, Inc., Wilmington, DE; CDL:252039-B)
- 00137440 Cummins, H.; Bannerman, M. (1983) 4 Chloro-3.5-xylenol (PCMX): Acute Inhalation Toxicity in the Rat: LSR Report No. 83/BTP029/ 356. (Unpublished study received Dec 27, 1983 under 49403-1; prepared by Life Science Research, Eng., submitted by Nipa Laboratories, Inc., Wilmington, DE; CDL:252039-C)
- 00137441 Cummins, H.; Gardner, J. (1983) 4-Chloro-3.5-xylenol (PCMX): Acute Eye Irritation/Corrosion Test in Rabbits: LSR Report No. 83/ BPT027/247. (Unpublished study received Dec 27, 1983 under 49403-1; prepared by Life Science Research, Eng., submitted by Nipa Laboratories, Inc., Wilmington, DE; CDL:252039-D)
- 00137442 Cummins, H.; Gardner, J. (1983) 4 Chloro-3.5-xylenol (PCMX): Acute Dermal Irritation/Corrosivity Test in Rabbits: LSR Report No. 83/BTP026/246. (Unpublished study received Dec 27, 1983 under 49403-1; prepared by Life Science Research, Eng., submitted by Nipa Laboratories, Inc., Wilmington, DE; CDL:252039-E)
- 00141330 Hunter, B.; Bridges, J.; Heywood, R.; et al. (1973) RBA 666 Toxicity to Rats in Oral Administration for 13 Weeks: RKT46/73744. Unpublished study prepared by Huntingdon Research Centre. 88 p.
- 00144377 Beavers, J. (1984) A Dietary LC50 Study in the Bobwhite with Nipacide MX: Final Report: Project No. 189-104. Unpublished study prepared by Wildlife International Ltd. 14 p.
- 00144380 Hoberg, J. (1984) Acute Toxicity of Nipacide MX to Daphnids (Daphnia magna): Bionomics Report #BW-84-9-1623: Bionomics Study

MRID

CITATION

#10829-0584-6100-110. Unpublished study prepared by Springborn Bionomics, Inc. 12 p.

- 00145646 Beavers, J. (1984) A Dietary LC50 Study in the Mallard with Nipacide MX: Final Report: Project No. 189-105. Unpublished study prepared by Wildlife International Ltd. 14 p.
- 00145647 Beavers, J. (1984) An Acute Oral Toxicity Study in the Bobwhite with Nipacide MX: Final Report: Project No. 189-106. Unpublished study prepared by Wildlife International Ltd. 18 p.
- 00063125 Havler, M.E.; Jordan, B.J.; Malam, S.; et al. (1974) Sectional Laboratory Report: Metabolism Studies of PCMX: Report No. 5389/2. (Unpublished study received Aug 2, 1978 under 4026-4; prepared by Reckitt & Colman, submitted by Ottawa Chemical Div., Toledo, Ohio; CDL:235214-F)
- 00066995 Doyle, R.L.; Elsea, J.R. (1965) Subacute and Chronic Dermal Application of Ottasept Extra to Rabbits: P-13. (Unpublished study received Oct 8, 1966 under 4026-4; prepared by Hill Top Research, Inc., submitted by Ottawa Chemical Div., Toledo, Ohio; CDL:100252-B)
- 00069585 Estep, C.L.; Teske, R.H. (1968) Acute Application of Ottasept Tech to the Eyes of Rabbits: R-550. (Unpublished study received Sep 23, 1976 under 10145-EX-2; prepared by Hill Top Research, Inc., submitted by Blumberg Co., Inc., Peabody, Mass.; CDL:226150-F)
- 00092252 Doyle, R.L.; Elsea, J.R. (1965) Acute Eye Application of Ottasept Extra to Albino Rabbits: P-12B. (Unpublished study received Sep 23, 1976 under 10145-EX-2; prepared by Hill Top Research, Inc., submitted by Blumberg Co., Inc., Peabody, Mass.; CDL:235329-E)
- 40223109 Cappetti, N. (1976) 30-day Subacute Toxicity of PCMX in Rats: Summary Interim Report: Experiment 80N. Unpublished study prepared by Pennwalt Corp. 48 p.
- 40223114 Green, D.; Preece, J. (1974) Technical Memorandum No. 25: Dermal Exposure of Rats to Dettol. Unpublished study prepared by Reckitt and Colman. 9 p.

MRID

CITATION

- 40223115 Preece, J. (1975) Technical Memorandum No. 30: Dermal Exposure of Rats to Dettol. Unpublished study prepared by Reckitt and Colman. 6 p.
- 40725501 Clark, J. (1988) Product Chemistry: Nipacide CMX (4 Chloro 3,5 Xylenenol): Study I.D. RE-C2-10. Unpublished study prepared by Nipa Laboratories, Inc. 20 p.
- 40937401 Clark, J. (1988) Product Chemistry: Nipacide MX (4-Chloro-3,5dimethylphenol): Study I.D. RE-T2-88. Unpublished study prepared by Nipa Laboratories in cooperation with Salford University Industrial Centre Ltd. 23 p.
- 41085301 Ivett, J. (1989) Mutagenicity Test on Chloroxylenol in the in vivo Mouse Micronucleus Assay: Final Report: Project ID: HLA Study No.: 10555-0-455. Unpublished study prepared by Hazleton Laboratories America, Inc. 21 p.
- 41310301 May, K. (1989) Nipacide MX (Parachlorometaxylenol): Assessment of Mutagenic Potential in Histidine Auxotrophs of Salmonella Typhmurium: Lab Project Number: 89/0690: NIPA/1989/8. Unpublished study prepared by Life Science Research Ltd. 32 p.
- 41536903 Leblanc, G. (1980) Acute Toxicity of Ottasept to Rainbow Trout (Salmo gairdneri): Lab Project Number: BW-80-10-756. Unpublished study prepared by EG & G, Bionomics. 12 p.
- 41670403 LeBlanc, G. (1990) Acute Toxicity of Ottasept to Bluegill (Lepomismacrochirus): Lab Project Number: BW/80/10/755. Unpublished study prepared by EG&G Bionomics. 13 p.
- 41886601 Blaszcak, D. (1991) A Close-Patch Repeated Insult Dermal Sensitization Study in Guinea Pigs with Ottasept Technical (chloro-3,5 xylenol) (Buehler Method): Lab Project Number: 5933-90. Unpublished study prepared by Bio/dynamics, Inc. 21 p.
- 42002702 Siglin, J. (1991) 4 Chloro 3,5 Xylenol (PCMX): Teratology Study in Rats. Unpublished study prepared by Springborn Laboratories, Inc. 266 p.
- 43294801 Ellison, F. (1994) Physical and Chemical Characteristics of Nipacide PX:

MRID

CITATION

Stability: Lab Project Number: 520-05. Unpublished study prepared by Case Consulting Labs., Inc. 25 p.

43322201 Nipa Labs, Inc. (19??) Melting Point: Supplement to "Product Chemistry: Nipacide CMX (4-Chloro-3, 5-Xylenol)": Lab Project Number: 1994-1S: RE-02-10. Unpublished study. 8 p.

- 43322202 OECD (1981) Density of Liquids and Solids: Supplement to "Product Chemistry Nipacide CMX (4 Chloro 3, 5 Xylenol)": Lab Project Number: 1994-1S: RE-02-10. Unpublished study. 14 p.
- 43322203 Nipa Labs Inc. (1994) Solubility: Supplement to "Product Chemistry Nipacide CMX (4-Chloro-3, 5 Xyleneol)": Lab Project Number: 1994-1S: 1994-1S. Unpublished study. 5 p.
- 43322204 OECD (1981) Vapour Pressure Curve: Supplement to "Product Chemistry Nipacide CMX (4Chloro-3, 5-Xylenol)": Lab Project Number: 1994-1S, 1994-1S. Unpublished study. 24 p.
- 43322205 Clark, J.; Cunliffe, A. (1972) Rapid Spectrophotometric Measurement of Ionisation Constants in Aqueous Solution. Chemistry and Industry (Mar. 17, '93):291-293.
- 43322206 Clark, J.; Cunliffe, A. (1988) Discussion of pH of Nipacide CMX in Aqueous Solution: Lab Project Number: 1994/1S: RE-02-10. Unpublished study prepared by Nipa Labs, Inc and University of Salford. 4 p.

APPENDIX D. List of Available Related Documents

The following is a list of available documents related to chloroxylenol. 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 chloroxylenol and are included in the EPA's Office of Pesticide Programs Public Docket.

- 1. Health and Environmental Effects Science Chapters for chloroxylenol
- 2. Detailed Label Usage Information System (LUIS) Report for chloroxylenol
- 3. RED Fact Sheet for chloroxylenol
- 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-

A.	Organization of the Submittal Package	Page 17
в.	Transmittal Document	11
C.	Individual Studies	
	C. 1 Special Considerations for Identifying Studies 5	
D.	Organization of each Study Volume 6	17
	D. 1 Study Title Page	12

Tovt Evample

	D. 2 Statement of Data Confidentiality Claims
	$(based on FIFRA \S10(d)(1))$ 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 studies flagging requirements are fina	s (When alized.)
Body of Study	Always - with an English langu translation if required.	lage
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 (C	Page 14 C)

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) data confidentiality (158.33)(b) or 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. <u>For Further Information</u>

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

ELEMENTS TO BE INCLUDED IN THE TRANSMITTAL DOCUMENT*

1. <u>Name and address of submitter</u> (or all joint submitters**)

⁺ Smith Chemical Corporation 1234 West Smith Street Cincinnati OH 98765	-and-	Jones Chemical Company 5678 Wilson Blvd Covington KV 56789
CINCINNALI, OH 98/05		COVINGLON, KI 56/89

*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. List of submitted studies
 - 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:		
1 1	—	Name	Signature
Company	Name		
Company	Contact: _	Namo	Dhana
		Nalle	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	ENCE N	UMBER 1 This cross reference numb following paragraph(s) at references.	per is used in the study in place of the the indicated volume and page
DELETED WO	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 REFER	ENCE NUMBER 5	This cross reference number is us following paragraph(s) at the indi references.	ed in the study in place of the cated volume and page
DELETED PA	RAGRAPH(S):		
()
(Reproduce the deleted pa	aragraph(s) here)
()
PAGE 20.	LINES 2-17REASON FOR Description of the	THE DELETION he quality control process	FIFRA REFERENCE §10(d)(1)(C)

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

CROSS REFER	ENCE NUMBER <u>7</u> GES(S): are attached imme	This cross reference num following paragraph(s) a references. ediately behind this page	ber is used in the study in place of the the indicated volume and page
PAGES	REASON FOR THE DEL	<u>LETION</u>	FIFRA REFERENCE
35-41.	Description of product ma	anufacturing process	§10(d)(1)(A)

ATTACHMENT 6.

SAMPLE GOOD LABORATORY PRACTICE STATEMENTS

Example 1.

This study meets t	the requirements :	for 40 CFR Pai	rt 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. Product Specific Data Call-In

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 1 of this Notice, the Data Call-In Chemical Status Sheet, to submit certain product specific 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 A through G; or
- 2. Why you believe you are exempt from the requirements listed in this Notice and in Attachment 3, <u>Requirements Status and Registrant's Response Form</u>, (see section III-B); or
- 3. Why you believe EPA should not require your submission of product specific 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, Data Call-In Response Form, as well as a list of all 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 (expiration date 12-31-92).

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 Notice
Section II -	Data Required By This Notice
Section III -	Compliance With Requirements Of This Notice
Section IV -	Consequences Of Failure To Comply With This Notice
Section V -	Registrants' Obligation To Report Possible Unreasonable
	Adverse Effects
Section VI -	Inquiries And Responses To This Notice

The Attachments to this Notice are:

- 1 Data Call-In Chemical Status Sheet
- $\frac{1}{2}$ Product-Specific Data Call-In Response Form
- **Requirements Status and Registrant's Response Form**
- 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 _
- 7 Cost Share and Data Compensation Forms, and Product Specific Data Report Form

SECTION I. WHY YOU ARE RECEIVING THIS NOTICE

The Agency has reviewed existing data for this active ingredient and reevaluated the data needed to support continued registration of the subject active ingredient. The Agency has concluded that the only additional data necessary are product specific data. No additional generic data requirements are being imposed. You have been sent this Notice because you have product(s) containing the subject active ingredient.

SECTION II. DATA REQUIRED BY THIS NOTICE

II-A. DATA REQUIRED

The product specific data required by this Notice are specified in Attachment 3, Requirements Status and Registrant's Response Form. Depending on the results of the studies required in this Notice, additional 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 Attachment 3, Requirements Status and Registrant's Response Form, within the time frames 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 (tel: 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 deadlines for complying with data requirements when the studies were not conducted in accordance with acceptable standards. The OECD protocols are available from OECD, 1750 Pennsylvania Avenue N.W., Washington, D.C. 20006.

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 160.3(a)(6)].

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

III-A. SCHEDULE FOR RESPONDING TO THE AGENCY

The appropriate responses initially required by this Notice for 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

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 chose 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. A discussion of options relating to requests for data waivers is contained in Section III-D.

There are two forms that accompany this Notice of which, depending upon your response, one or both must be used in your response to the Agency. These forms are the Data-Call-In Response Form, and the Requirements Status and Registrant's Response Form, Attachment 2 and Attachment 3. 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 must be submitted for each product listed on the Data Call-In Response Form unless the voluntary cancellation option is selected or unless the product is identical to another (refer to the instructions for completing the Data Call-In Response Form in Attachment 2). 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.

1. 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 the Data Call-In Response Form. If you choose this option, this is the only form 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.

2. 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 of this Notice and comprise options 1 through 6 on the Requirements Status and Registrant's Response Form and item numbers 7a and 7b on the

Data Call-In Response Form. Deletion of a use(s) and the low volume/minor use option are not valid options for fulfilling product specific data requirements.

3. Request for Product Specific Data Waivers. Waivers for product specific data are discussed in Section III-D of this Notice and are covered by option 7 on the <u>Requirements</u> Status and Registrant's Response Form. 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.

III-C SATISFYING THE DATA REQUIREMENTS OF THIS NOTICE

If you acknowledge on the Data Call-In Response Form that you agree to satisfy the product specific data requirements (i.e. you select item number 7a or 7b), then you must select one of the six options on the 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 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)
- I am submitting an existing study that has not been submitted previously to the Agency by anyone (Submitting an Existing Study) (4)
- (5)
- 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 study that has been submitted but not reviewed by the Agency (Citing (6) 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.

The time frames in the Requirements Status and Registrant's Response Form are the time frames that the Agency is allowing for the submission of completed study reports. 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 for a step-by-step in a step-by-step 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 -- 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 registration number of the product for which data will be submitted must be noted in the agreement to cost share by the registrant selecting this option. 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 -- This option only applies to acute toxicity and certain efficacy data as described in option 2 above. 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 your 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 and proof of the other registrant's receipt of that offer (such as a certified mail receipt). Your offer must, in addition to anything else, offer to share in the burden of producing the data upon terms to be agreed 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 must also inform EPA of its election of an option to develop and submit the data required by this Notice by submitting a Data Call-In Response Form and a Requirements Status and Registrant's Response Form committing to develop and submit the data required

In order for you to avoid suspension under this option, you may not withdraw your offer to share in the burdens 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 will normally 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.

<u>Option 4, Submitting an Existing Study</u> -- 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</u> the 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(j) " '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(k), means "any material derived from a test system for examination or analysis."
- b. Health and safety studies completed after May 1984 must also contain all GLPrequired quality assurance and quality control information, pursuant to the requirements of 40 CFR Part 160. Registrants must also 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 are usually 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 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 should also 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 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.

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, as appropriate.

III-D REQUESTS FOR DATA WAIVERS

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 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.

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:
 - a. inform EPA of intent to develop and submit the data required by this Notice on a Data Call-In Response Form and a Requirements Status and Registrant's Response Form;
 - b. fulfill the commitment to develop and submit the data as required by this Notice; or
 - c. 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 would generally 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 must also 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 case-by-case basis.

Requests for voluntary cancellation received <u>after</u> 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 (other than voluntary cancellation requests and generic data exemption claims) must include a completed Data Call-In Response Form and a completed Requirements Status and Registrant's Response Form (Attachment 2 and Attachment 3 for 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 Data Call-In Response Form need be submitted.

The Office of Compliance Monitoring (OCM) of the Office of Pesticides and Toxic Substances (OPTS), EPA, will be monitoring the data being generated in response to this Notice.

Sincerely yours,

Peter Caulkins, Acting Director Special Review and **Reregistration Division**

Attachments

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

Attachment 1. Chemical Status Sheet

DATA CALL-IN CHEMICAL STATUS SHEET

INTRODUCTION

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

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 chloroxylenol. 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 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 are contained in the Requirements Status and Registrant's Response, Attachment 3. The Agency has concluded that additional data on 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 products.

INQUIRIES AND RESPONSES TO THIS NOTICE

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

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

Emily Mitchell 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: CHLOROXYLENOL

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

INSTRUCTIONS FOR COMPLETING THE DATA CALL-IN RESPONSE FORM FOR PRODUCT SPECIFIC DATA

- Item 1-4. Already completed by EPA.
- Item 5. If you wish to **voluntarily cancel** your product, answer "**yes**." If you choose this option, you will not have to provide the data required by the Data Call-In Notice and you will not have to complete any other forms. Further sale and distribution of your product after the effective date of cancellation must be in accordance with the Existing Stocks provision of the Data Call-In Notice (Section IV-C).
- Item 6. Not applicable since this form calls in product specific data only. However, if your product is **identical** to another product and you qualify for a **data exemption**, you must respond with "**yes**" to Item 7a (MUP) or 7B (EUP) on this form, provide the **EPA registration numbers of your source(s)**; you would **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.
- Item 7a. 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**." 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. See Item 6 with regard to identical products and data exemptions.
- Items 8-11. Self-explanatory.
- **NOTE**: You may provide **additional information** that does not fit on this form in a signed letter that accompanies this form. For example, you may wish to report that your product has already been transferred to another company or that you have already voluntarily canceled this product. For these cases, please supply all relevant details so that EPA can ensure that its records are correct.

INSTRUCTIONS FOR COMPLETING THE **REQUIREMENTS STATUS AND REGISTRANT'S RESPONSE FORM** FOR **PRODUCT SPECIFIC DATA**

- Item 1-3 Completed by EPA. Note the **unique identifier number** assigned by EPA in Item 3. This number **must be used in the transmittal document for any data submissions** in response to this Data Call-In Notice.
- Item 4. The guideline reference numbers of studies required to support the product's continued registration are identified. These guidelines, in addition to the requirements specified in the Notice, govern the conduct of the required studies. Note that series 61 and 62 in product chemistry are now listed under 40 CFR 158.155 through 158.180, Subpart C.
- Item 5. The study title associated with the guideline reference number is identified.
- Item 6. The use pattern(s) of the pesticide associated with the product specific requirements is (are) identified. For most product specific data requirements, all use patterns are covered by the data requirements. In the case of efficacy data, the required studies only pertain to products which have the use sites and/or pests indicated.
- Item 7. The substance to be tested is identified by EPA. For product specific data, the product as formulated for sale and distribution is the test substance, except in rare cases.
- Item 8. The due date for submission of each study is identified. It is normally based on **8 months after issuance of the Reregistration Eligibility Document** unless EPA determines that a longer time period is necessary.
- Item 9. Enter only one of the following response codes for each data requirement to show how you intend to comply with the data requirements listed in this table. Fuller descriptions of each option are contained in the Data Call-In Notice.
 - 1. I will generate and submit data by the specified due date (**Developing Data**). By indicating that I have chosen this option, I certify that I will comply with all the requirements pertaining to the conditions for submittal of this study as outlined in the Data Call-In Notice. By the specified due date, I will also submit: (1) a completed "**Certification With Respect To Data Compensation Requirements**" form (EPA Form 8570-29) and (2) two completed and signed copies of the Confidential Statement of Formula (EPA Form 8570-4).
 - 2. I have entered into an agreement with one or more registrants to develop data jointly (Cost Sharing). I am submitting a copy of this agreement. I understand that this option is available only for acute toxicity or certain efficacy data and only if EPA indicates in an attachment to this Notice that my product is similar enough to another product to qualify for this option. I certify that another party in the agreement is committing to submit or provide the required data; if the required study is not submitted on time, my product may be subject to suspension. By the specified due date, I will also submit: (1) a completed "Certification With Respect To Data Compensation Requirements" form (EPA Form 8570-29) and (2) two completed and signed copies of the Confidential Statement of Formula (EPA Form 8570-4).
 - 3. I have made offers to share in the cost to develop data (**Offers to Cost Share**). I understand that this option is available **only** for acute toxicity or certain efficacy data and **only** if EPA indicates in an attachment to this Data Call-In Notice that my product is similar enough to another product to qualify for this option. I am submitting **evidence that I have made an offer** to another registrant (who has an obligation to submit data) to share in the cost of that data. I am also submitting a completed

"Certification of Offer to Cost Share in the Development Data" form. I am including a copy of my offer and proof of the other registrant's receipt of that offer. I am identifying the party which is committing to submit or provide the required data; if the required study is not submitted on time, my product may be subject to suspension. I understand that other terms under Option 3 in the Data Call-In Notice (Section III-C.1.) apply as well. By the specified due date, I will also submit: (1) a completed "Certification With Respect To Data Compensation Requirements" form (EPA Form 8570-29) and (2) two completed and signed copies of the Confidential Statement of Formula (EPA Form 8570-4).

- 4. By the specified due date, I will submit an existing study that has not been submitted previously to the Agency by anyone (Submitting an Existing Study). I certify that this study will meet all the requirements for submittal of existing data outlined in Option 4 in the Data Call-In Notice (Section III-C.1.) and will meet the attached acceptance criteria (for acute toxicity and product chemistry data). I will attach the needed supporting information along with this response. I also certify that I have determined that this study will fill the data requirement for which I have indicated this choice. By the specified due date, I will also submit a completed "Certification With Respect To Data Compensation Requirements" form (EPA Form 8570-29) to show what data compensation option I have chosen. By the specified due date, I will also submit: (1) a completed "Certification With Respect To Data Compensation option I have chosen. By the specified due date, I will also submit: (1) a completed "Certification With Respect To Data Compensation option I have chosen. By the specified due date, I will also submit: (1) a completed "Certification With Respect To Data Compensation option I have chosen. By the specified and signed copies of the Confidential Statement of Formula (EPA Form 8570-4).
- 5. By the specified due date, I will submit or cite data to upgrade a study classified by the Agency as partially acceptable and upgradable (**Upgrading a Study**). I will submit **evidence of the Agency's review** indicating that the study may be upgraded and what information is required to do so. I will provide the MRID or Accession number of the study at the due date. I understand that the conditions for this option outlined Option 5 in the Data Call-In Notice (Section III-C.1.) apply. By the specified due date, I will also submit: (1) a completed "**Certification With Respect To Data Compensation Requirements**" form (EPA Form 8570-29) and (2) two completed and signed copies of the **Confidential Statement of Formula (EPA Form 8570-4)**.
- 6. By the specified due date, I will cite an existing study that the Agency has classified as acceptable or an existing study that has been submitted but not reviewed by the Agency (**Citing an Existing Study**). If I am citing another registrant's study, I understand that this option is available **only** for acute toxicity or certain efficacy data and **only** if the cited study was conducted on my product, an identical product or a product which EPA has "grouped" with one or more other products for purposes of depending on the same data. I may also choose this option if I am citing my own data. In either case, I will provide the **MRID or Accession number(s)** for the cited data on a "Product Specific Data Report" form or in a similar format. By the specified due date, I will also submit: (1) a completed "**Certification With Respect To Data Compensation Requirements" form (EPA Form 8570-29)** and (2) two completed and signed copies of the **Confidential Statement of Formula (EPA Form 8570-4)**.
- 7. I request a waiver for this study because it is inappropriate for my product (**Waiver Request**). I am attaching a complete justification for this 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 P.R. Notice 86-5]. I understand that this is my **only** opportunity to state the reasons or provide information in support of my request. If the Agency approves my waiver request, I will **not** be required to supply the data pursuant to Section 3(c)(2)(B) of FIFRA. If the Agency denies my waiver request, I **must choose** a method of meeting the data

requirements of this Notice by the due date stated by this Notice. In this case, I must, within **30 days** of my receipt of the Agency's written decision, submit a revised "Requirements Status and Registrant's Response" Form indicating the option chosen. I also understand that the deadline for submission of data as specified by the original data call-in notice will not change. By the specified due date, I will also submit: (1) a completed "**Certification With Respect To Data Compensation Requirements**" form (EPA Form 8570-29) and (2) two completed and signed copies of the **Confidential Statement of Formula (EPA Form 8570-4**).

- Items 10-13. Self-explanatory.
- **NOTE:** You may provide **additional information** that does not fit on this form in a signed letter that accompanies this form. For example, you may wish to report that your product has already been transferred to another company or that you have already voluntarily canceled this product. For these cases, please supply all relevant details so that EPA can ensure that its records are correct.

Attachment 3. Product Specific Requirement Status and Registrant's Response Forms (Form B inserts) and Instructions
INSTRUCTIONS FOR COMPLETING THE "REQUIREMENTS STATUS AND REGISTRANT'S RESPONSE" FORM FOR PRODUCT SPECIFIC DATA

- Item 1-3. Completed by EPA. Note the unique identifier number assigned by EPA in item 3. This number must be used in the transmittal document for any data submissions in response to this Data Call-In Notice.
- Item 4. The guidelines reference numbers of studies required to support the product's continued registration are identified. These guidelines, in addition to the requirements specified in the Notice, govern the conduct of the required studies. Note that series 61 and 62 in product chemistry are now listed under 40 CFR 158.155 through 158.180, Subpart c.
- Item 5. The study title associated with the guideline reference number is identified.
- Item 6. The use patters (s) of the pesticide associated with the product specific requirements is (are) identified. For most product specific data requirements, all use patterns are covered by the data requirements. In the case of efficacy data, the required studies only pertain to products which have the use sites and/ or pests indicated.
- Item 7. The substance to be tested is identified by EPA. For product specific data, the product as formulated for sale and distribution is the test substance, except in rare cases.
- Item 8. The due date for submission of each study is identified. It is normally based on 8 months after issuance of the Reregistration Eligibility Documents unless EPA determines that a longer time period is necessary.
- Item 9. Enter Only one of the following response codes for each data requirement to show how you intend to comply with the data requirements listed in this table. Fuller descriptions of each option are contained in the Data Call-In Notice.

1. I will generate and submit data by the specified due date (Developing Data). By indicating that I have chosen this option, I certify that I will comply with all the requirements pertaining to the conditions for submittal of this study as outlined in the Data Call-In Notice.

2. I have entered into an agreement with one or more registrants to develop data jointly (Cost Sharing). I am submitting a copy of this agreement. I understand that this option is available on for acute toxicity or certain efficacy data and only if EPA indicates in an attachment to this notice that my product is similar. Enough to another product to qualify for this option. I certify that another party in the agreement is committing to submit or provide the required data; if the required study is not submitted on time, my product my be subject to suspension.

3. I have made offers to share in the cost to develop data (Offers to Cost Share). I understand that this option is available only for acute toxicity or certain efficacy data and only if EPA indicates in an attachment to this Data Call-In Notice that my product is similar enough to another product to qualify for this option. I am submitting evidence that I have made an offer to another registrant (who has an obligation to submit data) to share in the cost of that data. I am also submitting a completed " Certification of offer to Cost Share in the Development Data" form. I am including a copy of my offer and proof of the other registrant's receipt of that offer. I am identifying the party which is committing to submit or provide the require data; if the required study is not submitted on time, my product may be subject to suspension. I understand that other terms under Option 3 in the Data Call-In Notice (Section III-C.1.) apply as well.

4. By the specified due date, I will submit an existing study that has not been submitted previously to the Agency by anyone (submitting an Existing Study). I certify that this study will meet all the requirements for submittal of existing data outlined in option 4 in the Data Call-In Notice (Section III-C.1.) and will meet the attached acceptance criteria (for acute toxicity and product chemistry data). I will attach the needed supporting information along with this response. I also certify that I have determined that this study will fill the data requirement for which I have indicated this choice.

5. By the specified due date, I will submit or cite data to upgrade a study classified by the Agency as partially acceptable and upgrade (upgrading a study). I will submit evidence of the Agency's review indicating that the study may be upgraded and what information is required to do so. I will provide the MRID or Accession number of the study at the due date. I understand that the conditions for this Option outlined Option 5 in the Data Call-In Notice (Section III-C.1.) apply.

6. By the specified due date, I will cite an existing study that the Agency has classified as acceptable or an existing study that has been submitted but not reviewed by the Agency (Citing an Existing Study). If I am citing another registrant's study, I understand that this option is available only for acute toxicity or certain efficacy data and only if the cited study was conducted on my product, an identical product or a product which EPA has "grouped" with one or more other products for purposes of depending on the same data. I may also choose this option if I am citing my own data. In either case, I will provide the MRID or Accession number (s) number (s) for the cited data on a "Product Specific Data Report" form or in a similar format. If I cite another registratrant's data, I will submit a completed "Certification With Respect To Data Compensation Requirements" form.

7. I request a waiver for this study because it is inappropriate for my product (Waiver Request). I am attaching a complete justification for this 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 P.R. Notice 86-5]. I understand that this is my only opportunity to state the reasons or provide information in support of my request. If the Agency approves my waiver request, I will not be require to supply the data pursuant to Section 3(c) (2) (B) of FIFRA. If the Agency denies my waiver request, I must choose a method of meeting the data requirements of this Notice by the due date stated by this Notice. In this case, I must, within 30 days of my receipt of the Agency's written decision, submit a revised "Requirements Status chosen. I also understand that the deadline for submission of data as specified by the original data cal-in notice will not change.

Items 10-13. Self-explanatory.

<u>NOTE</u>: You may provide additional information that does not fit on this form in a signed letter that accompanies this form. 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

EPA'S BATCHING OF 4-CHLORO-3,5-XYLENOL PRODUCTS FOR MEETING ACUTE TOXICITY DATA REQUIREMENTS FOR REREGISTRATION

In an effort to reduce the time, resources and number of animals needed to fulfill the acute toxicity data requirements for reregistration of products containing 4-chloro-3,5-xylenol as the active ingredient, the Agency has batched products which can be considered similar for purposes of acute toxicity. Factors considered in the sorting process include each product's active and inert ingredients (identity, percent composition and biological activity), type of formulation (e.g., emulsifiable concentrate, aerosol, wettable powder, granular, etc.), and labeling (e.g., signal word, use classification, precautionary labeling, etc.). Note that the Agency is not describing batched products as "substantially similar" since some products within a batch may not be considered chemically similar or have identical use patterns.

Using available information, batching has been accomplished by the process described in the preceding paragraph. Notwith-standing the batching process, the Agency reserves the right to require, at any time, acute toxicity data for an individual product should the need arise.

Registrants of products within a batch may choose to cooperatively generate, submit or cite a single battery of six acute toxicological studies to represent all the products within that batch. It is the registrants' option to participate in the process with all other registrants, only some of the other registrants, or only their own products within a batch, or to generate all the required acute toxicological studies for each of their own products. If a registrant chooses to generate the data for a batch, he/she must use one of the products within the batch as the test material. If a registrant chooses to rely upon previously submitted acute toxicity data, he/she may do so provided that the data base is complete and valid by today's standards (see acceptance criteria attached), the formulation tested is considered by EPA to be similar for acute toxicity, and the formulation has not been significantly altered since submission and acceptance of the acute toxicity data. Regardless of whether new data is generated or existing data is referenced, registrants must clearly identify the test material by EPA Registration Number. If more than one confidential statement of formula (CSF) exists for a product, the registrant must indicate the formulation actually tested by identifying the corresponding CSF.

In deciding how to meet the product specific data requirements, registrants must follow the directions given in the Data Call-In Notice and its attachments appended to the RED. The DCI Notice contains two response forms which are to be completed and submitted to the Agency within 90 days of receipt. The first form, "Data Call-In Response," asks whether the registrant will meet the data requirements for each product. The second form, "Requirements Status and Registrant's Response," lists the product specific data required for each product, including the standard six acute toxicity tests. A registrant who wishes to participate in a batch must decide whether he/she will provide the data or depend on someone else to do so. If a registrant supplies the data to support a batch of products, he/she must select one of the following options: Developing Data (Option 1), Submitting an Existing Study (Option 4), Upgrading an Existing Study (Option 5) or Citing an Existing Study (Option 6). If a registrant depends on another's data, he/she must choose among: Cost Sharing (Option 2), Offers to Cost Share (Option 3) or Citing an Existing Study (Option 6). If a registrant does not want to participate in a batch, the choices are Options 1, 4, 5 or 6. However, a registrant should know that choosing not to participate in a batch does not preclude other registrants in the batch from citing his/her studies and offering to cost share (Option 3) those studies.

Seven products were found which contain 4-chloro-3,5-xylenol as the active ingredient. The products have been placed into two batches and a "no batch" category in accordance with the active and inert ingredients, type of formulation and current labeling. Table 1 identifies the products in each batch. Table 2 lists the products which have been placed in the "no batch" category.

Table 1			
Batch	EPA Reg. No.	% Active Ingredient	Formulation Type
1	49403-1	4-chloro-3,5-xylenol 98.0	Solid
	49403-12	4-chloro-3,5-xylenol 98.0	Solid
	49403-22	4-chloro-3,5-xylenol 100	Solid
2	1270-232	4-chloro-3,5-xylenol 0.047 o-phenylphenol 0.089 p-tert amylphenol 0.06 o-benzyl-p-chloro-phenol 0.095	Liquid
	1270-233	4-chloro-3,5-xylenol 0.047 o-phenylphenol 0.089 p-tert amylphenol 0.06 o-benzyl-p-chloro-phenol 0.095	Liquid

The following table lists products that were either considered not to be similar or the Agency lacked sufficient information for decision making and were not placed in any batch. Registrants of these products are responsible for meeting the acute toxicity data requirements separately for each product.

EPA Reg. No.	% Active Ingredient	Formulation
4584-53	4-chloro-3,5-xylenol 0.1 Isopropanol 59.16 Orthophenylphenol 0.1 Orthobenzyl para-chloro phenol 0.1	Liquid
48963-2	4-chloro-3,5-xylenol 3.0	Liquid

Table 2 (No Batch)

Attachment 5. EPA Acceptance Criteria

SUBDIVISION D

Guideline Study Title

Series 61	Product Identity and Composition
Series 62	Analysis and Certification of Product Ingredients
Series 63	Physical and Chemical Characteristics

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.
- 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 $\overline{at} < 0.1\%$. 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 6._ experimental or internal code numbers for each active ingredient.
- 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.

 - 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 $\ge 0.1\%$ or was found at $\ge 0.1\%$ 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
81-1	Acute Oral Toxicity in the Rat
81-2	Acute Dermal Toxicity in the Rat, Rabbit or Guinea Pig
81-3	Acute Inhalation Toxicity in the Rat
81-4	Primary Eye Irritation in the Rabbit
81-5	Primary Dermal Irritation Study
01 0	

81-6 Dermal Sensitization in the Guinea Pig

81-1 Acute Oral Toxicity in the Rat

ACCEPTANCE CRITERIA

- 1
- 2
- 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

- 2
- 3
- 5
- 6
- 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 at least 10% of body surface area. Application site covered with a porous nonirritating cover to retain test material and to prevent gestion. 10. ingestion.
- Individual observations at least once a day. Observation period to last at least 14 days. Individual body weights. Gross necropsy on all animals. 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 μ m 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 2.

- 9
- 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 10. Doses tested, sufficient to determine a toxicity substance).
 Individual observations at least once a day.
 Observation period to last at least 14 days.
 Individual body weights.
 Gross necropsy on all animals.
- 11
- 12
- 13.
- 14.

81-4 Primary Eye Irritation in the Rabbit

ACCEPTANCE CRITERIA

- 1.
- 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. 2.
- 3
- 4
- 5
- 6
- 7
- 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. 8.
- 9.*_

81-5 Primary Dermal Irritation Study

ACCEPTANCE CRITERIA

- 3
- 4
- 5
- 6

- g
- 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 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

- Identify material tested (technical, end-use product, etc).
 Study not required if material is corrosive or has a pH of < 2 or > 11.5.
 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 Infor	rmation: Does Not Contain	National Security	/ Information (E.C). 12065)	Form Approved. ON	AB No. 2070	-0060. Approval Ex	pires 2/28/94)
\$EPA	Confi	Inited States Environmental Protection Ar Office of Pesticide Programs (TS-767) Washington, DC 20460 idential Statement of F	iormula	A Basic Formult	ation B mulation P	0		See Instructio	ns on Back
1. Name and Add	dress of Applicant/Re	sgistrant (Include ZIP Code)		2. Name and Addres	s of Producer <i>(I</i>)	nclude ZIP Code)			
3. Product Name				4. Registration No./File (Symbol 5	EPA Product Mgr /Team	No.	6. Country Where Fo	mulated
				7. Pounds/Gal or Bulk D	ensity 8	На		9. Flash Point/Flame	Extension
EPA USE ONLY	10. Components in Fo into the formulation. name, trade name, an	ormulation (List as actually introduced Give commonly accepted chemical ad CAS number.)	11. Supplier N	ame & Address	12. EPA Reg. N	0. 13. Each Comp in Formulat a. Amount	oonent ion b. % by Weight	14. Certified Limits % by Weight a. Upper Limit b. Lower Limit	15. Purpose in Formulation
16. Typed Name	of Approving Official					17. Total Weight	100%		
18. Signature of	Approving Official		19. Title			20. Phone	e No. (Include ,	Area Code/ 21. Date	
EPA Form 857(0-4 (Rev. 12-90)	Previous editions are obsolete.	If you can photocopy t	this, please submit an ac	dditional copy. W	hite - EPA File Cop	y (original)	Yellow - A	oplicant 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.
- c. The CSF must be signed, dated and the telephone number of the responsible party must be provided.
- 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.
- g. For all active ingredients, the EPA Registration Numbers for the currently registered source products must be reported under column 12.
- h. The Chemical Abstracts Service (CAS) Numbers for all actives and inerts and all common names for the trade names must be reported.
- i. 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.
- j. 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).
- k. All the items under column 13.b. must total 100 percent.
- 1. All items under columns 14.a. and 14.b. for the active ingredients must represent pure active form.
- m. The upper and lower certified limits for ail active and inert ingredients must follow the 40 CFR 158.175 instructions. An explanation must be provided if the proposed limits are different than standard certified limits.
- n. When new CSFs are submitted and approved, all previously submitted CSFs become obsolete for that specific formulation.

United States Environmental Protection Agency Washington, DC 20460	Form Approved
CERTIFICATION OF OFFER TO COST	OMB No. 2070-0106 2070-0057
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 Number
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

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.

Signature of Company's Authorized Representative	Date
Name and Title (Please Type or Print)	

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

1	United States Environmenta	Protection Agency	Form Annual
	Washington, DC	20460	ONE No. 2070-0107
VERA	DATA COMPENSATION	RESPECT TO	2070-0057
Public reporting burden for this time for reviewing instructions, s completing and reviewing the ca aspect of this collection of inform Branch, PM-223, U.S. Environm of Management and Budget, Pa Please fill In blanks below Company Name Product Name Certify that: For each study cited in suppor Rodenticide Act (FIFRA) that written permission of the origi	DATA COMPENSATION collection of information is estima searching existing data sources, g ollection of information. Send com mation, including suggestions for mental Protection Agency, 401 M S aperwork Reduction Project (2070	REQUIREMENTS ted to average 15 minutes athering and maintaining to ments regarding the burd reducing this burden, to Cl St., S.W., Washington, DC -0106), Washington, DC Comp EPA under the Federal Insection original data submitter, or y.	Appreval Expires 3-31-9 per response, including he data needed, and en estimate or any other hief, Information Policy 20460; and to the Office 20503. Dany Number Reg. No.
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APPENDIX G. FACT SHEET
United States Environmental Protection Agency Prevention, Pesticides And Toxic Substances (7508W) EPA-738-F-94-028 September 1994

SEPA R.E.D. FACTS

Chloroxylenol

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 <u>re</u>registered 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 3045, chloroxylenol or chloro-m-xylenol.

Use Profile

Chloroxylenol is an antimicrobial used to control bacteria, algae and fungi in adhesives, emulsions, paints and wash tanks. It also is used to sanitize bathroom premises, diaper pails, laundry equipment, human bedding and pet living quarters in households, hospitals and other institutions. Formulations include a soluble concentrate/liquid (applied using a squirt bottle) and a pressurized liquid (aerosol), as well as a technical formulation and a formulation intermediate.

Use practice limitations include a prohibition against discharging effluent containing the pesticide into lakes, streams, ponds, estuaries, oceans or public waters unless specifically addressed in an NPDES permit, and a warning not to discharge the pesticide to sewer systems without previously notifying the sewage treatment plant authority.

Regulatory History

Chloroxylenol was first registered as a pesticide in the U.S. in 1959, for use as a fungicide. Products used as disinfectants and sanitizers have subsequently been registered. EPA issued an antimicrobial Data Call-In Notice in March 1987 to obtain chronic and subchronic toxicity data for the chloroxylenol manufacturing use product. Technical chemistry data were obtained through a Dioxin/Furan Data Call-In issued in 1988. Currently, two manufacturing use products and five end use products containing this active ingredient are registered.

Physical Chemistry Assessment

EPA was concerned with the potential formation of dioxins and chlorinated dioxin impurities during the manufacture of chloroxylenol, and with the effect of these impurities on human health and the environment. The Agency has required the registrant to fully satisfy technical chemistry data requirements addressing this concern. These data have been submitted and do not suggest that dioxins or chlorinated dioxin impurities are present in technical chloroxylenol.

Human Health Toxicity Assessment Chl

Chloroxylenol generally is of moderate to low acute toxicity, but causes severe eye irritation and has been placed in Toxicity Category I (indicating the greatest degree of acute toxicity) for eye irritation effects. Chloroxylenol is of low acute toxicity via the inhalation route and causes only slight skin irritation, so it has been placed in Toxicity Category IV (the lowest of four categories) for these effects. It is slightly toxic by the oral and dermal routes, and has been placed in Toxicity Category III for acute oral and dermal effects.

In a subchronic dermal study using rabbits, chloroxylenol caused redness, toughness and cracking of the skin at the highest dose level. In a developmental toxicity study using rats, chloroxylenol caused maternal effects including decreased weight gain and food consumption. Deaths occurred at the highest dose. The No Observed Effect Level was the highest dose administered. Chloroxylenol is not mutagenic.

Dietary Exposure

Since no food or feed uses are registered, the Agency anticipates no dietary exposure to chloroxylenol. A food additive tolerance has been established by the Food and Drug Administration (FDA) allowing use of chloroxylenol as a preservative in food packaging adhesives (please see 21 CFR 175.105(c)(5)). However the safety of that use is under FDA's regulatory purview.

Occupational and Residential Exposure

Based on current use patterns, the potential dermal and inhalation exposures to applicators, mixers and loaders may be significant when chloroxylenol is applied as a medical disinfectant using spray application methods, or as a preservative using the open pouring application method. Secondary exposure of residents and others to chloroxylenol after application of end-use products is significantly less than workers' exposure.

Human Risk Assessment

Since chloroxylenol is not applied to food or feed crops and is not used in food handling establishments, no dietary risk is expected. FDA regulates the use of this pesticide as a food packaging adhesive. No toxicological endpoints of concern have been identified for chloroxylenol except eye irritation. Personal protective equipment (PPE) may be required for some end-use products on a case-by-case basis, but is not required for all chloroxylenol products at this time.

Environmental Assessment

Environmental Fate and Assessment

Chloroxylenol is hydrologically stable and is a weak acid. EPA does not anticipate significant environmental exposure to this pesticide since it has only one limited outdoor use, on pet living quarters.

Ecological Effects

Chloroxylenol's toxic effects range from low to high, depending on the species. The pesticide is practically non-toxic to bobwhite quail on an acute oral basis and to birds on a dietary basis. However, it is highly toxic to freshwater fish and moderately toxic to aquatic invertebrates on an acute basis. Plants and non-target insects are not expected to be exposed to chloroxylenol since it is used mostly indoors.

Ecological Effects Risk Assessment

Chloroxylenol is practically non-toxic to birds, moderately toxic to freshwater invertebrates and highly toxic to fish. However, exposure to terrestrial and aquatic organisms is extremely minimal since chloroxylenol has almost all indoor uses. The sole outdoor use, on pet living quarters, will not result in significant environmental exposure. Therefore, when used according to label directions, chloroxylenol poses only a minimal risk to terrestrial and aquatic organisms.

Additional Data Required

No additional generic data for chloroxylenol is required at this time. The Agency is requiring product-specific data including product chemistry and acute toxicity studies, revised Confidential Statements of Formula (CSFs) and revised labeling for reregistration.

Product Labeling Changes Required

All chloroxylenol end-use products must comply with EPA's current pesticide product labeling requirements, and with the following:

Products with the Outdoor Use - Products with the pet living quarters use on their labeling must bear the following statement:

"This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate."

Non-Residential Products with Indoor Nonfood and/or Medical Uses -Must bear the following statement:

"This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant

Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA." All end-use products must specify their formulaton type and percent of active ingredient on their labels. The use of currently registered pesticide products containing Regulatory chloroxylenol in accordance with approved labeling is not expected to pose Conclusion unreasonable risks or adverse effects to humans or the environment. Therefore, all uses of these products are eligible for reregistration. Products containing chloroxylenol will be reregistered once the productspecific data, revised Confidential Statements of Formula and revised labeling are received and accepted by EPA. Products containing chloroxylenol and other active ingredients will be reregistered only after the other active ingredients also are eligible for reregistration. EPA is requesting public comments on the Reregistration Eligibility For More Decision (RED) document for chloroxylenol during a 60-day time period, as Information announced in a Notice of Availability published in the Federal Register. 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. Following the comment period, the chloroxylenol RED document 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 chloroxylenol RED, or reregistration of individual products containing chloroxylenol, please contact the Special Review and Reregistration Division

> 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 toll-free 1-800-858-7378, between 8:00 am and 6:00 pm Central Time, Monday through Friday.

(7508W), OPP, US EPA, Washington, DC 20460, telephone 703-308-8000.