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Reregistration Eligibility Decision for Allethrins

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Reregistration Eligibility Decision (RED) for Allethrins

List C

Case No. 0437

Revised May 2009

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Glossary of Terms and Abbreviations

ai	Active Ingredient
CFR	Code of Federal Regulations
CSF	Confidential Statement of Formula
DCI	Data Call-In
DFR	Dislodgeable Foliar Residue
DNT	Developmental Neurotoxicity
EC	Emulsifiable Concentrate Formulation
EEC	Estimated Environmental Concentration
EPA	Environmental Protection Agency
EUP	End-Use Product
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FFDCA	Federal Food, Drug, and Cosmetic Act
G	Granular Formulation
GLN	Guideline Number
HP	High pressure
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 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.
LOC	Level of Concern
LOAEL	Lowest Observed Adverse Effect Level
LP	Low pressure
mg/kg/day	Milligram Per Kilogram Per Day
mg/L	Milligrams Per Liter
MOE	Margin of Exposure
MRID	Master Record Identification (number). EPA's system of recording and tracking studies submitted.
MUP	Manufacturing-Use Product
N/A	Not Applicable
NDETF	Non-Dietary Exposure Task Force
NLAA	Not Likely to Adversely Affect
NR	Not Required
NOAEL	No Observed Adverse Effect Level
OPP	EPA Office of Pesticide Programs
OPPTS	EPA Office of Prevention, Pesticides and Toxic Substances
PCA	Percent Crop Area
PHED	Pesticide Handler's Exposure Data
PHI	Preharvest Interval
ppb	Parts Per Billion
PPE	Personal Protective Equipment
ppm	Parts per Million
RED	Reregistration Eligibility Decision
REI	Restricted Entry Interval
RfD	Reference Dose
RQ	Risk Quotient
SF	Safety Factor
SLC	Single Layer Clothing
SOP	Standard Operating Procedure
TGAI	Technical Grade Active Ingredient
USDA	United States Department of Agriculture
UF	Uncertainty Factor
UF_{db}	Database Uncertainty Factor

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Revision to the Allethrins Reregistration Eligibility Decision

The Reregistration Eligibility Decision (RED) document for the allethrins was signed on June 30, 2007. The Agency subsequently determined a registered use was not considered in the allethrins RED. A product (registration number 21165-62) was identified that can be applied either through automated misting systems in commercial horse barns, dog kennels, or zoo animal quarters, or as as a space spray applied indoors or outdoors through handheld foggers. The handheld fogger scenario described in the original RED document was based on a higher application rate than is permitted on registration 21165-62 and, therefore, is protective of this use and no RED revisions are required for handheld foggers. However, the use of this product in commercial animal housing misting systems was not addressed in the RED or in the supporting risk assessments. As a result, the Agency updated the allethrins occupational and residential risk assessment to include an evaluation of the commercial animal premise automated misting system use, and revised the RED document accordingly. All other, previously considered, risk assessments remain the same. The *Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED)*, dated February 17, 2009, can be found in the docket at http://www.regulations.gov under docket identification (ID) number EPA-HQ-OPP-2006-0986.

The revisions made to the allethrins RED are as follows:

- In Section III, the occupational risk assessment has been updated to include a use in barn/stable automated misting systems.

- Discussion of the animal barn automatic misting system was added to Section IV.

- In Section V, revisions were made to Table 11 (Summary of Labeling Changes), based on PR Notice 2008-1, "Environmental Hazard General Labeling Statements on Outdoor Residential Use Products." Label specifications for animal premise automatic misting systems were also added.

- In Appendix A, some use rates were corrected based on conversations with the technical registrants, which indicated that some of the use rates captured in the original table did not reflect the maximum labeled rate. The Agency conducted a review of the relevant labels, and updated the table accordingly.

Abstract

The Environmental Protection Agency (EPA or the Agency) has completed the human health and environmental risk assessments for the allethrins and is issuing its risk management decision. The allethrin series of pyrethroid insecticides includes bioallethrin (PC code 004003), esbiol (004004), esbiothrin (004007, formerly 004003/004004), and pynamin forte (004005). The allethrins are not registered for use on food, and they have no U.S. tolerances associated with their use; therefore, they are not subject to Food Quality Protection Act (FQPA). The risk assessments, which are summarized below, are based on the review of the required database supporting the use patterns of currently registered products and additional data provided by the technical registrants, Valent BioSciences Corporation and Sumitomo Chemical Company, Ltd.

The allethrins are used to control flying and crawling insects in a number of commercial, horticultural and residential applications. Commercial applications include space, broadcast and crack and crevice treatment in a variety of commercial, industrial, residential, and institutional sites. Horticultural applications include foliar and fogger treatment on non-food plants. Residential uses include pest control in homes and outdoor domestic structures, on gardens and direct application to cats, dogs and horses. Allethrins are also approved for use in commercial animal premise (indoor) misting systems. The registered uses of the allethrins are not expected to adversely impact groundwater or surface water; therefore, a drinking water assessment was not performed. Because there are no food uses or potential exposures to drinking water, the reregistration action considered potential residential, occupational, and ecological risk.

For residential handler risk, all scenarios assessed were greater than the Agency's Level of Concern (LOC), i.e., the Margins of Exposure (MOEs) were above 1000. For residential post-application risk, the MOEs are all greater than the target MOE of 1000 after mitigation measures are incorporated, except for inhalation exposures from yard and patio total release foggers. However, the Agency does not anticipate a risk of concern from this use.

Occupational handler and post-application inhalation exposures were assessed. Most of the inhalation MOEs are greater than the Agency's target occupational MOE of 100 without respirators, and therefore, the inhalation risks are not of concern. The high pressure handwand scenario is of concern without respirators and requires a dust mask to achieve the target MOE. The space spray fogger scenario is also of concern and requires a PF50 full face respirator with appropriate cartridges to achieve the target MOE, as well as a maximum concentration reduction from 3.0% ai to 1.5% ai in product. The MOEs for the occupational post-application scenarios assessed exceed the Agency's target MOE of 100 and are not of concern.

The Agency evaluated potential ecological risk from both indoor and outdoor uses of the allethrins. The technical registrant voluntarily agreed to cancel pet shampoos and dips; therefore, there is no longer potential ecological exposure from indoor products containing allethrins, and no further mitigation is necessary for indoor uses. Although current label uses include several potentially large-scale outdoor uses, they are not being supported by the technical registrant. Since outdoor uses will be limited to localized spot treatments, no additional mitigation measures for these uses are required.

I. Introduction

The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) was amended in 1988 to accelerate the reregistration of products with active ingredients registered prior to November 1, 1984. The amended Act calls for the development and submission of data to support the reregistration of an active ingredient, as well as a review of all submitted data by the U.S. Environmental Protection Agency (referred to as EPA or "the Agency"). Reregistration involves a thorough review of the scientific database underlying a pesticide's registration. The purpose of the Agency's review is to reassess the potential risks 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 or not the pesticide meets the "no unreasonable adverse effects" criterion of FIFRA.

This document summarizes EPA's human health and ecological risk assessments and reregistration eligibility decision (RED) for the allethrins. The document consists of six sections. Section I contains the regulatory framework for reregistration; Section II provides an overview of the chemical and a profile of its use and usage; Section III gives an overview of the human health and environmental effects risk assessments; Section IV presents the Agency's decision on reregistration eligibility and risk management; and Section V summarizes the label changes necessary to implement the risk mitigation measures outlined in Section IV. Finally, the Appendices list related information, supporting documents, and studies evaluated for the reregistration decision. The risk assessments for the allethrins and all other supporting documents are available in the Office of Pesticide Programs (OPP) public docket (http://www.regulations.gov) under docket number EPA-HQ-OPP-2006-0986.

II. Chemical Overview

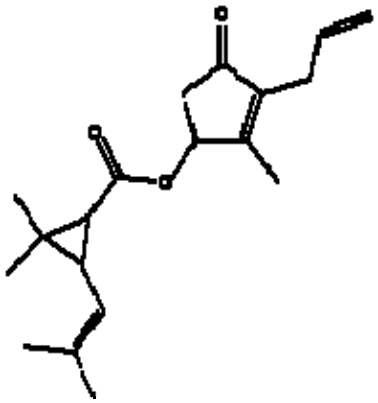
A. Regulatory History

The allethrin series of pyrethroid insecticides includes bioallethrin (PC code 004003), esbiol (004004), esbiothrin (004007, formerly 004003/004004), and pynamin forte (004005). Historically, there were two other members of the series, which have since been cancelled. Allethrin (allyl homolog of cinerin I), in its liquid form was assigned PC code 004001, and was cancelled in 1992. Allethrin in its solid form was assigned PC code 004002, and was cancelled in 1991. For a number of years, products containing esbiothrin were assigned a dual PC code (004003/004004), which led to some confusion in naming the active ingredients in registered pesticide products. To resolve this issue, in 2006, EPA established a separate PC code for products containing esbiothrin (004007). Due to the long history of the allethrins and the similarity between the allethrin compounds, there has been some additional confusion surrounding the allethrins nomenclature. During the reregistration process for the allethrins, the EPA has been in coordination with the two allethrins registrants, Valent BioSciences Corporation and Sumitomo Chemical Company, to help resolve some of these issues. To clarify, the revised chemical names, common names, and CAS numbers for the allethrins are listed in the next section, Chemical Identification.

EPA published a Registration Standard for the allethrins series in 1988, *Guidance for the Reregistration of Pesticide Products Containing Allethrin Stereoisomers as the Active Ingredient* (EPA 540/RS-88/063, issued March 24, 1988). The purpose of the Registration Standard was to "provide an orderly mechanism by which pesticide products containing the same active ingredient can be reviewed and standards set for compliance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)." It also identified studies that were acceptable to meet the data requirements of the currently registered uses, additional studies necessary to support continued registration, and labeling revisions. It further identified steps registrants were required to take to maintain their registration or apply for new registrations. A data call-in (DCI) was issued as part of the Registration Standard, followed by a second DCI, which was issued on October 6, 1995.

B. Chemical Identification

ALLETHRINS:



The allethrins are synthetic pyrethroids, and are structurally very similar to cinerin I in naturally occurring pyrethrum. When allethrin was first synthesized in 1948, it was the first pyrethroid developed, and it differs from more recently developed pyrethroids in its photo-lability. The more-recently developed pyrethroids have structural modifications (*i.e.*, alterations to the isobutenyl group attached to the cyclopropane moiety) that make them more persistent than the early generation pyrethroids, such as allethrin. Therefore, allethrin is among the least persistent of all pyrethroids and is less persistent than cyallethrins, cyfluthrin, cyhalothrin, deltamethrin, fenvalerate, tefluthrin, and tralomethrin. The allethrins subject to reregistration differ only in the percentage of stereoisomers present. There are three asymmetric carbons and, thus, eight potential isomers; however, four isomers are present in the greatest concentration for these products. One of the stereoisomers, d trans of d component (isomer), is recognized as being the most insecticidally active and toxicologically significant of the four isomers . Allethrins are sometimes classified as type I pyrethroids, since they lack an α-cyano substituent.

Chemical Class:	Synthetic pyrethroid
Case Number:	0437
PC Code:	Bioallethrin (004003), esbiol (004004), esbiothrin (004007), and pynamin forte (004005)
Molecular Weight:	302.4
Empirical Formula:	$C_{19}H_{26}O_3$
Technical Registrants:	Valent BioSciences Corporation (bioallethrin, esbiol, esbiothrin), Sumitomo Chemical Company, Ltd. (pynamin forte)

See below for a listing of common names, chemical names, PC codes, and CAS numbers.

<u>Bioallethrin</u>:

OPP Chemical Code: 004003

Chemical Name: (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Common name: “bioallethrin (BSI)”

CAS number: 260359-57-7

Composition: consists of [1R,trans;1R] + [1R,trans;1S] in an approximate ratio of 1:1

Esbiol: (also called S-Bioallethrin for some products)

OPP Chemical Code: 004004

Chemical name: (S)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Common name: “allethrin (ISO)”. (“Esbiol” is not an authorized common name.)

CAS number: 28434-00-6

Composition: consists predominately [> 96%] of the (S)(1R,3R) enantiomer.

Esbiothrin:

OPP Chemical Code: 004007

Chemical name: (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Common name: “allethrin (ISO)”. (“Esbiothrin” is not an authorized common name.)

CAS number: 260359-57-7

Composition: consists of [1R,trans;R] + [1R,trans;S] in approximate ratio of 1:3.

Pynamin Forte:

OPP Chemical Code: 004005

Chemical Name: (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R; 1R,3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Common name: “allethrin (ISO)”. (“d-allethrin” is the chemical listed in the title of the WHO Specifications and Evaluations document, but is not recognized as an authorized common name; “d-cis/trans allethrin” is listed in information from the registrants as an even more appropriate name, but they state it also is not an authorized common name.)

CAS number: 231937-89-6

Composition: consists of [1R,trans;1R] + [1R,trans;1S] + [1R,cis;1R] + [1R,cis;1S] in an approximate ratio of 4:4:1:1

Two of the technical compounds have the same CAS Number; both esbiothrin and bioallethrin are 260359-57-7, since they are primarily comprised of the same two enantiomers. However, it would be preferable to have separate CAS Nos. assigned for these two technical products. In addition, note that the common names listed above are not distinctive, since there are three technical products currently known as "allethrin (ISO)". To resolve this, Valent Biosciences Corporation has informed the Agency that there are efforts on-going to assign distinctive common names for the respective technical products.

The analytical method used to verify the chemical identify of the members of the allethrin series can only distinguish the presence of trans and cis isomers. However, current analytical methods cannot determine their relative proportions in a sample. Since the different members of the allethrin series differ primarily in their relative proportions of the cis and trans isomers, the current Enforcement Analytical Method does not adequately distinguish the different members of the allethrin series. To address this area of uncertainty, the two technical registrants have agreed to submit analytical methods which will distinguish between the four allethrin technical products.

C. Use Profile

The following information on the currently registered uses includes an overview of use sites and application methods. A detailed table of the uses of allethrins eligible for reregistration is contained in Appendix A.

Type of Pesticide: Synthetic pyrethroid. The allethrins are insecticides, and are typically used as a "knock-down" agent. A different, residual pesticide is co-formulated with the allethrin in the end-use products to kill the target pests.

Target Organism: The primary target pests are wasps and hornets, roaches, ants, fleas, and mosquitos.

Mode of Action: The allethrins are a type I pyrethroid (i.e., lacking a cyano group at the α carbon position of the alcohol moiety). The allethrins are axonic poisons that block the closing of the sodium gates in the nerves, and, thus, prolong the return of the membrane potential to its resting state leading to hyperactivity of the nervous system which can result in paralysis and/or death.

Use Sites: Commercial applications include space, broadcast and crack and crevice treatments in a variety of commercial, industrial, residential, and institutional sites. Horticultural applications include foliar and fogger treatment on non-food plants. Residential uses include pest control in homes and outdoor domestic structures, on gardens, and direct application to pets. Allethrins are also approved for use in commercial animal premise (indoor) misting systems. There are no food uses for the allethrins, and a Federal Register final rule revoking all tolerances was published on September 29, 2004.

Use Classification: The allethrins products are designated as general use; however, some products are registered for use by pest control operators (PCOs) only.

Formulation Types: Pressurized liquid, ready-to-use (RTU) liquids, emulsifiable concentrates, liquid concentrates, pet shampoos and dips, mosquito coils and mats.

Application Methods: Allethrins are applied by power, mechanical, and commercial sprayer; automatic misting system; aerosol can; and thermal fogger.

Application Rates: Typical concentrations of active ingredients (ai) in residential use products, including ready to use (RTU) (e.g. ant and roach sprays, wasp and hornet sprays) and indoor and outdoor aerosols or aqueous sprays for crawling and flying insects, range between 0.05 % and 0.25%. Total release aerosol (TRA) foggers are typically 0.6% to 3% (total volume of the can versus the area it is designed to treat). Mats range between 7% and 24% and release active ingredient into the air by heating the mat. Coils range from 0.1% to 0.3% in concentration and also release active ingredient into the air by burning of the coil (the active is volatilized off of the coil just behind the burning part of the coil.). The maximum automatic misting system product spray dilution rate is 0.05%.

Application Timing: The application timing is not mentioned on the majority of existing allethrins labels, although some indicate re-application permitted after two weeks, while others recommend use as needed. The barn and stable automatic misting system spray frequency is limited to 1 application/hour.

D. Estimated Usage of Pesticide

Less than 30,000 lbs of allethrins are marketed on average per year. Of the four allethrins, bioallethrin is the predominant form of allethrin sold in the U.S. Pynamin forte is used exclusively in the mat and coil formulations. The majority of allethrins are used in the consumer market (i.e. homeowner uses in space and surface sprays for flying and crawling insects), and a small amount is sold into the institutional/industrial market.

III. Summary of Allethrins Risk Assessments

The following is a summary of EPA's revised human health and ecological risk assessments for the allethrins, as presented fully in the documents: *Allethrins: Revised HED Chapter of the Reregistration Eligibility Decision Document (RED) for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* and *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol,* dated June 27, 2007; *Allethrins: Revised Occupational and Residential Exposure Assessment and Recommendations for The Reregistration Eligibility Decision (RED,* dated June 27, 2007*; Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED),* dated February 17, 2009; and the *Response to Comments (Phase 3) and Revised Environmental Fate and Ecological Risk Assessment in Support of the Reregistration of the Allethrins,* dated April 4, 2007. The purpose of this summary is to assist the reader by identifying the key features and findings of these risk assessments, and to help the reader better understand the conclusions reached in the assessments.

The human health and ecological risk assessment documents and supporting information listed in Appendix C were used to reach the safety finding and regulatory decision for the allethrins. While the risk assessments and related addenda are not included in this document, they are available from the OPP Public Docket, located at http://www.regulations.gov, under docket number EPA-HQ-OPP-2006-0986.

EPA's use of human studies in the allethrins risk assessment is in accordance with the Agency's Final Rule promulgated on January 26, 2006, related to Protections for Subjects in Human Research, which is codified in 40 CFR Part 26.

A. Human Health Risk Assessment

The human health risk assessment incorporates potential exposure, hazard, and risks from all sources, which for the allethrins is limited. There are no registered food uses for the allethrins. The majority of allethrins use is in consumer home products (indoor and outdoor surface and space sprays). There are also commercial and horticultural uses for the allethrins. Although the allethrins human health risk assessment considered a pending new use for the allethrins in food handling establishments, this use, and the risks associated with it, are not subject to reregistration at this time. The pending use in food handling establishements will not be included in the reregistration eligibility decision for the allethrins. The Agency will address this action separately. For more information on the human health risk assessment, see *Allethrins: Revised HED Chapter of the Reregistration Eligibility Decision Document (RED) for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* and *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol,* dated June 27, 2007; *Allethrins: Revised Occupational and Residential Exposure Assessment and Recommendations for The Reregistration Eligibility Decision (RED,* dated June 27, 2007*;* and *Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED),* dated February 17, 2009. These are available under docket number EPA-HQ-OPP-2006-0986.

. **1. Toxicity of Allethrins**

Toxicity assessments are designed to predict whether a pesticide could cause adverse health effects in humans (including short-term or acute effects, such as skin or eye damage, and lifetime or chronic effects, such as cancer, developmental effects, or reproductive effects), and the level or dose at which such effects might occur. The Agency has reviewed all toxicity studies submitted for the allethrins and has determined that the toxicological database is reliable and sufficient for reregistration. However, there are no developmental neurotoxicity or comparative neurotoxicity studies in adults and offspring available for the allethrins. Since the allethrins database is currently incomplete with respect to data on potential pre- and postnatal toxicity, the Agency applied a ten fold (10x) database uncertainty factor (UF_{DB}) to account for this lack of data. A study will be required to address uncertainty surrounding potential pre- and postnatal toxicity of the allethrins. The registrants should consult with the Agency before beginning this study.

a. Acute Toxicity Profile

Pyrethroids are neurotoxicants which act by prolonging the opening of the sodium channel in nervous tissue, resulting in a hyperexcitable state. As explained previously, the allethrins are classified as type I pyrethroids. Neurotoxicity in rats of type I pyrethroids is characterized as tremor, prostration, enhanced startle response, and aggressive behavior. Similar signs were observed in the guideline studies in which clinical signs of neurotoxicity were noted. The acute toxicity profile for each of the allethrins is summarized in Tables 1-4 below.

Table 1. Acute Toxicity Profile - Bioallethrins

Guideline	Study Type	MRID	Results	Toxicity Category[a]
870.1100	Acute Oral	00151444	LD_{50}: 709 mg/kg (M) 1042 mg/kg (F)	III
870.1200	Acute Dermal	41155801	LD_{50} > 3000 mg/kg (M&F)	III
870.1300	Acute Inhalation	42906902	LC_{50} : 2.51 mg/L	IV
870.2400	Primary Eye Irritation	41155803	Slight to moderate irritant	III
870.2500	Primary Skin Irritation	41155805	Very slight dermal irritant	IV
870.2600	Dermal Sensitization	41155807	Negative	N/A

a. These technical acute toxicity values included in this document are for informational purposes only. The data supporting these values may or may not meet the current acceptance criteria.

Table 2. Acute Toxicity Profile - Esbiol

Guideline	Study Type	MRID	Results	Toxicity Category[a]
870.1100	Acute Oral	00151460	LD_{50}: 574.5 mg/kg (M) 412.9 mg/kg (F)	II

870.1200	Acute Dermal	41155802	LD_{50} > 2000 mg/kg	III
870.1300	Acute Inhalation	41670801	LC_{50} : 1.32 mg/L (M) 1.23 mg/L (F)	III
870.2400	Primary Eye Irritation	41155804	Moderate ocular irritant	III
870.2500	Primary Skin Irritation	41155806	Not a dermal irritant.	IV
870.2600	Dermal Sensitization	41155808	Not a sensitizer	N/A

a. These technical acute toxicity values included in this document are for informational purposes only. The data supporting these values may or may not meet the current acceptance criteria.

Table 3. Acute Toxicity Profile - Esbiothrin

Guideline	Study Type	MRID	Results	Toxicity Category[a]
870.1100	Acute Oral	00151449	LD_{50}: 432 mg/kg (M) 378.0 mg/kg (F)	II
870.1200	Acute Dermal	00151451	LD_{50} > 2000 mg/kg	III
870.1300	Acute Inhalation	00151452	LC_{50}: 2.63 g/m^3-unacceptable	III
870.2400	Primary Eye Irritation	00151454	Minimally	IV
870.2500	Primary Skin Irritation	00151453	Slightly	III
870.2600	Dermal Sensitization	42907001	Negative	N/A

a. These technical acute toxicity values included in this document are for informational purposes only. The data supporting these values may or may not meet the current acceptance criteria.

Table 4. Acute Toxicity Profile – Pynamin Forte

Guideline	Study Type	MRID	Results	Toxicity Category[a]
870.1100	Acute Oral	41017101	LD_{50}s= M: 2150 mg/kg F: 900 mg/kg	III
870.1200	Acute Dermal	41017102	M: 2660 mg/kg F: 4390 mg/kg	III
870.1300	Acute Inhalation	41017103	LC50 > 3.875 mg/L	IV
870.2400	Primary Eye Irritation	41017104	Slight irritant	III
870.2500	Primary Skin Irritation	41017104	Negative	IV
870.2600	Dermal Sensitization	41017105	Negative	N/A

a. These technical acute toxicity values included in this document are for informational purposes only. The data supporting these values may or may not meet the current acceptance criteria.

b. Toxicological Endpoints

The toxicological endpoints used in the human health risk assessment for the allethrins are listed in Table 5 below. The observed endpoints for risk assessment were based on neurotoxicity and liver toxicity. Because observed endpoints for risk assessment were at the same or lower dose at which developmental and reproductive toxicity occurred, there were no concerns for sensitivity of offspring. Clinical signs of neurotoxicity occurred in an inhalation study with esbiol. The point of departure (POD) for intermediate-term incidental oral exposure was selected based upon a benchmark dose analysis because of the 6x difference between the NOAEL (6 mg/kg/day) and the LOAEL (36 mg/kg/day). A 10% response for the benchmark dose (BMD_{10}) was selected because of the mild nature of the lesions, characterized as "acute swelling of hepatocytes," which did not progress in severity at the high dose. The selected $BMDL_{10}$ value was 267 ppm, which is the lower 95% confidence limit on the BMD_{10}. This dietary concentration was converted to a mg/kg/day dose. Only inhalation and incidental oral endpoints have been assessed, because no systemic effects were observed at the limit dose in the dermal toxicity studies in test animals, and no toxicity endpoint was selected for dermal exposure

The target MOE (i.e., level of concern) for residential incidental oral and inhalation exposures is 1000. This includes the standard uncertainty factors of 10X for interspecies extrapolation, 10X for intraspecies variation, and an additional 10X UF_{DB} due to lack of data on potential pre- and postnatal toxicity. The target MOE for occupational inhalation exposures is 100 because the database uncertainty factor does not apply to occupational exposures. The uncertainty factors (UF) used to account for interspecies extrapolation and intraspecies variability are also described in Table 5.

Table 5. Toxicology Endpoints for the Allethrins

Exposure/ Scenario	Point of Departure	Uncertainty Factors	RfD, PAD, Level of Concern	Study and Toxicological Effects
Incidental Oral Short-Term (1-30 days)	NOAEL = 20 mg/kg/day	UF_A = 10x UF_H = 10x UF_{DB} = 10x	Residential LOC for MOE = 1000.	30-day dog (esbiothrin). LOAEL = 63 mg/kg/day based on elevated liver enzymes and increased liver weight
Incidental Oral Intermediate-Term (1-6 months)	$BMDL_{10}$ = 8 mg/kg/day	UF_A = 10x UF_H = 10x UF_{DB} = 10x	Residential LOC for MOE = 1000.	6-month dog (Bioallethrin). $BMDL_{10}$ based on based on microscopic liver changes (hepatocellular degeneration)
Dermal (all durations)	N/A	N/A	N/A	No systemic toxicity at 1000 mg/kg/day with esbiothrin or esbiol and negligible dermal absorption with pyrethrins (0.22%)
Inhalation (all durations)	NOAEL = 1.3 mg/kg/day	UF_A = 10x UF_H = 10x UF_{DB} = 10x	Residential LOC for MOE = 1000. Occupational LOC for MOE = 100.	28-day inhalation study in rats (esbiol). LOAEL = 6.5 mg/kg/day based on clinical signs in females (limb tremors, hunched posture, vocalization during handling)
Cancer (oral, dermal, inhalation)	Classification: Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential (esbiothrin).			

Table 5. Toxicology Endpoints for the Allethrins				
Exposure/ Scenario	**Point of Departure**	**Uncertainty Factors**	**RfD, PAD, Level of Concern**	**Study and Toxicological Effects**
NOAEL = no observed adverse effect level. UF = uncertainty factor. UF_A = extrapolation from animal to human (intraspecies). UF_H = potential variation in sensitivity among members of the human population (interspecies). UF_{DB} = database uncertainty factor. $BMDL_{10}$ = bench mark dose level. MOE = margin of exposure. LOC = level of concern. N/A = not applicable.				

2. Carcinogenicity of Allethrins

Genetic toxicity studies with esbiol, esbiothrin, bioallethrin, and pynamin forte were negative for mutagenicity. Carcinogenicity studies were conducted with esbiothrin and pynamin forte. In these studies, the only evidence of carcinogenicity was rare benign kidney tumors in male rats treated with esbiothrin. Doses in the mouse carcinogenicity study were considered inadequate and the cancer classification for esbiothrin is "suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential."

3. Metabolites and Degradates

The Agency reviewed the metabolism of allethrins, and concluded that for tolerance expression and risk assessment, the parent compound, allethrin, is the only residue of toxicological concern. For additional details, refer to *Allethrins: Revised HED Chapter of the Reregistration Eligibility Decision Document (RED) for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* <u>*and*</u> *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol*, dated December June 27, 2007.

4. Dietary Exposure and Risk (Food + Water)

There are no food uses for the allethrins currently registered; therefore, dietary exposure is not of concern. Although the human health risk assessment previously cited includes a dietary assessment for a proposed new use in food handling establishments, this action is not included in the allethrins reregistration case, and is outside the scope of this RED. The Agency will address this action separately. The use of allethrins by commercial applicators in handheld foggers applied to residential building premises, assessed in the *Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED)*, dated February 17, 2009, is restricted to spot use only, as are all other outdoor uses of allethrins products. Since there are no outdoor, broadcast uses registered, the use of allethrins products is not expected to adversely impact groundwater or surface water (the sources of drinking water); therefore, a drinking water assessment was not performed.

5. Residential Exposure and Risk

Residential exposure assessments consider potential non-occupational pesticide exposure. For allethrins, the Agency has evaluated potential exposure and risk to allethrins for homeowners who handle (mix, load, and apply) products containing allethrins. The Agency also evaluated potential post-application risk to adults and children entering allethrins-treated areas.

To estimate residential (inhalation and incidental oral) risks, the Agency calculates a margin of exposure (MOE), which is the ratio of the toxicity endpoint (NOAEL or $BMDL_{10}$) selected for risk assessment to the exposure. This MOE is compared to a level of concern, which is the same value as the uncertainty factor (UF) applied to a particular toxicity study. The standard UF is 100x (10x to account for interspecies extrapolation and 10x for intraspecies variation). Since the allethrins database is currently incomplete with respect to data on potential pre- and postnatal toxicity, the Agency applied a ten fold (10x) UF_{DB} to account for this lack of data. A study will be required to address uncertainty surrounding potential pre- and postnatal toxicity of the allethirns. Thus, the target level of concern for the allethrins is 1000. A summary of the allethrins residential risk follows. For further information on residential risk, refer to *Allethrins: Revised HED Chapter of the Reregistration Eligibility Decision Document (RED) for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* *and* *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol,* dated December June 27, 2007.

a. Residential Handler Risks

The Agency determined that there is the potential for residential handlers to be exposed to allethrins during pesticide applications from aerosol cans made in indoor and outdoor residential settings to several use sites. While some allethrin products are packaged as ready-to-use (RTU) trigger sprayer bottles, the handler risks calculated from aerosol can application are protective of risks from trigger sprayer applications because the unit exposure values are lower for trigger sprayer application. Only short-term (1-30 days) inhalation exposures were assessed because of the infrequency of use associated with the residential homeowner products. Dermal exposures were not assessed, because no dose or endpoints were selected from available toxicity studies for dermal exposure.

Pesticide handler exposure database (PHED) unit exposure values were used to assess exposures, because chemical-specific monitoring data were not available. The following assumptions were also used in estimating risks from residential handler exposure to allethrins:

- The body weight of an adult handler is 70 kg.
- One aerosol can is used per day. This assumption is based upon the HED Science Advisory Committee on Exposure SOP 12: "Recommended Revisions to the Standard Operating Procedures for Residential Exposure Assessment" (2/22/2001).
- An aerosol can contains 9 to 16 ounces by weight of product based upon currently registered labels.
- The percent ai in the products ranges from 0.10 to 0.50 percent by weight based upon currently registered labels.

Risk to homeowners handling allethrins products are below the Agency's LOC. The inhalation MOEs for all scenarios assessed are greater than 1000 (ranging from 15,000 to 70,000). See Table 6 for further detail.

Table 6. Residential Handler Risks for Aerosol Can Applications				
Use Scenario	**Percent Active Ingredient (AI) in Product**	**Amount of Product Used per Day**	**Amount of AI Used per Day**	**Inhalation MOE**
Indoor Surface or Space Spray	0.50	One 15 ounce can	0.0047 lb	15,000
Pet and Bedding Spray	0.32	One 9 ounce can	0.0018 lb	39,000
Hand Held Yard and Patio Fogger	0.15	One 16 ounce can	0.0015 lb	46,000
Wasp and Hornet Nests	0.10	One 16 ounce can	0.0010 lb	70,000

b. Residential Post-Application Risks

The Agency uses the term "post-application" to describe exposures to individuals that occur as a result of being in an environment that has been previously treated with a pesticide. Unlike residential handler exposure, where the Agency assumed only adults will be handling and applying allethrins products, individuals of varying ages can potentially be exposed when reentering or performing activities in areas that have been previously treated.

For the allethrins, inhalation exposures may occur when consumer-use space spray products, patio foggers, mosquito coils, or fly mats are used; therefore, inhalation exposures were assessed for adults and toddlers for these scenarios. Inhalation risk following application of space sprays by a professional applicator was not assessed, because treated areas are vacated prior to application and ventilated prior to re-occupancy; therefore, the Agency believes little or no post-application inhalation exposure will occur. Only short-term exposure was considered for inhalation risk, since the endpoint for inhalation exposures is the same for all durations of exposure.

Although the allethrins product (registration number 21165-62) registered for use in animal premise automatic misting systems is limited to use in commercial and industrial horse barns, dog kennels, and zoo quarters, there is still some potential for non-occupational exposures from this use as well, since commercial horse barns and dog kennels can be frequented by individuals other than workers. For instance, some people board their horses at commercial stables. Currently, the Agency does not have a Standard Operating Procedures (SOP) to assess non-occupational post-application exposure for the "hobby barn" scenario. The Agency is currently revising SOPs and is considering assessing post-application exposure for those who may be exposed to this scenario. While the assumptions in the occupational exposure scenario (i.e., 8 hours spent in the barn) are likely an overestimate of risk, the Agency has no information at this time to characterize the amount of time horse owners that board their horses spend in commercial stables. The animal barn misting system MOE of 245 (based on an 8-hour exposure duration), is below the non-occupational (or residential) target MOE of 1000. For exposure durations 1.5 hours or less, the animal barn misting system risk estimate is above the non-occupational target MOE of 1000 and, therefore, is not of concern. Furthermore, the risk estimate for the metered release scenario described above is conservative, since it was assumed that the aerosols would remain airborne until they were removed by ventilation, and the effects

of aerosol settling were not considered. Upon development of SOPs to assess non-occupational post-application exposures for hobby barn scenarios, the Agency intends to reevaluate this exposure scenario during Registration Review.

Incidental oral exposures may occur after surface applications of the allethrins are made by a consumer or professional applicator to residential areas such as carpets, vinyl and flooring. Incidental oral exposures for these scenarios were, therefore, assessed for both adults and toddlers. Incidental oral exposure may also occur through contact with pets that have been treated with pet sprays or shampoos. Incidental oral exposures from pet spray applications were calculated; these MOEs are also protective of dip or shampoo applications, since the shampoos and dips are used at lower dilution rates than the spray formulations. Because there are different toxicological endpoints for short- and intermediate-term incidental oral exposures, MOEs for both durations were calculated.

Only inhalation and incidental oral exposures have been assessed; dermal exposures were not assessed, because no dose or endpoints were selected from available toxicity studies for dermal exposure. The following scenarios were assessed:

- Toddler incidental oral ingestion of residues on indoor surfaces after fogger treatment.
- Toddler incidental oral ingestion of residues on indoor surfaces after PCO broadcast surface treatment.
- Toddler incidental oral ingestion of residues on indoor surfaces after consumer spot surface treatment.
- Inhalation exposures from space spray application
- Inhalation exposures from mosquito coils and fly mats
- Inhalation exposures from yard and patio foggers
- Incidental oral exposures from pet sprays

Exposure data for assessing post-application exposures from the use of foggers and aerosols in indoor residential settings were based upon pyrethrins studies conducted by the Non-Dietary Exposure Task Force (NDETF). The pyrethrins study data are considered applicable for allethrin because of the structural similarity between pyrethrins and allethrin. The residential risk assessment is also based on current label rates and use instructions, as well as on estimates of what and how much homeowners typically treat, such as the size of a house or spot treatment, from the Agency's standard operating procedures for residential exposures and best professional judgment. For more information on the daily volume handled and the area treated used in each residential handler scenario, refer to both the *Allethrins: HED Chapter of the Reregistration Eligibility Decision Document (RED). Phase 2 Error Correction Reregistration Action for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* <u>*and*</u> *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol,* dated December 20, 2006, and *Allethrins: Revised HED Chapter of the Reregistration Eligibility Decision Document (RED) for Bioallethrin (004003), Esbiol (004004), Esbiothrin (004007), and Pynamin Forte (004005)* <u>*and*</u> *Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol,* dated June 27, 2007 risk assessments, which are available under docket number EPA-HQ-OPP-2006-0986.

While the majority of the scenarios assessed are not of concern, there are several scenarios with MOEs below 1000 (i.e, exceeding the Agency's LOC). All of the residential post-application MOEs for the allethrins are summarized in Table 7 below, and the use scenarios exceeding the LOC are in bold type. Mitigation measures addressing risk exceedances are discussed in Chapter IV of this document.

Table 7. Allethrin Residential Post-Application Risk Summary

Source of Exposure	Application Rate	Exposed Population	MOE*
Incidental Oral Exposures (Short-Term)			
Fogger Treatment - Carpet Floors Fogger Treatment - Vinyl Floors	3.6 mg/m^3	Children	3600 5200
PCO Surface Treatment - Carpet Floors PCO Surface Treatment - Vinyl Floors	3.0% spray (1 gal / 1000 ft^2)	Children	**20** **28**
PCO Surface Treatment - Carpet Floors PCO Surface Treatment - Vinyl Floors	0.1% spray (0.5 gal / 1000 ft^2)	Children	1200 1700
Consumer Spot Treatment - Carpet Floors Consumer Spot Treatment - Vinyl Floors	0.5% Spray	Children	1100 1700
Consumer Spot Treatment - Carpet Floors Consumer Spot Treatment - Vinyl Floors	0.25% Spray	Children	2200 3400
Treated Pets – Spray Formulations	0.32% a.i.	Children	2,100
Incidental Oral Exposures (Intermediate-Term)			
Fogger Treatment - Carpet Floors Fogger Treatment - Vinyl Floors	3.6 mg/m^3	Children	3000 4400
PCO Surface Treatment - Carpet Floors PCO Surface Treatment - Vinyl Floors	3.0% spray (1 gal / 1000 ft^2)	Children	**16** **24**
PCO Surface Treatment - Carpet Floors PCO Surface Treatment - Vinyl Floors	0.1% spray (0.5 gal /1000 ft^2)	Children	960 1400
Consumer Spot Treatment - Carpet Floors Consumer Spot Treatment - Vinyl Floors	0.5% Spray	Children	960 1400
Consumer Spot Treatment - Carpet Floors Consumer Spot Treatment - Vinyl Floors	0.25% Spray	Children	1900 2800
Treated Pets – Spray Formulations	0.32% a.i.	Children	**860**
Inhalation Exposures (Short/Intermediate-Term)			
Space Spray – 0.50% Product	0.80 mg/m^3 (based upon the NDETF study)	Children Adults	**650** 2100
Space Spray – 0.25% Product	0.40 mg/m^3 (based upon the NDETF study)	Children Adults	1300 4200
Space Spray – 0.10% Product	0.16 mg/m^3 (based upon the NDETF study)	Children Adults	3050 10000
	0.35 mg/m^3 (Based upon Raid label 4822-513)	Children Adults	1400 4800
Mosquito Coils	2 coils per patio	Children Adults	7000 14000
Fly Mats	2 mats per patio	Children Adults	1800 3600

Table 7. Allethrin Residential Post-Application Risk Summary			
Source of Exposure	**Application Rate**	**Exposed Population**	**MOE***
Hand Held Yard and Patio Fogger	3 second spray per patio	Children Adults	3100 6200
Hand Held Yard and Patio Fogger	9 second spray per patio	Children Adults	1000 2200
Total Release Yard and Patio Fogger	6 oz. fogger / yard & patio	Children Adults	**160** 310
Total Release Yard and Patio Fogger	Two 1.5 ounce foggers / patio	Children Adults	**650** 1300

*MOEs in bold font do not approach or exceed the target MOE of 1000 (i.e., indicate risks of concern).

6. Occupational Exposure and Risk

The occupational risk assessment addresses risks to workers who may be exposed to allethrins when mixing, loading, or applying a pesticide (i.e., handlers), and when entering treated sites for routine tasks (post-application). Exposure for workers generally occurs via the dermal or inhalation route; however, only inhalation exposures have been assessed because no systemic effects were observed at the limit dose in the dermal toxicity studies in test animals, and no toxicity endpoint was selected for dermal exposure. The Agency assessed short (1 to 30 days), intermediate (30 days to several months) and long-term (> 6 months) exposure, although the risk results were essentially the same since the toxicological endpoints for inhalation exposures are the same for all durations of exposure. The target MOE is 100 for short, intermediate and long-term inhalation exposures.

Occupational exposure to allethrins was assessed using data from the Pesticide Handler Exposure Database (PHED, and worker exposure and risk estimates are based on the best data currently available to the Agency. In addition, standard default assumptions pertaining to average body weight, work day, and area treated daily were used to calculate risk estimates. Application rates used in this assessment are derived directly from current allethrin labels. The occupational risk assessment is summarized here. For further detail, see the *Allethrins: Revised Occupational and Residential Exposure Assessment and Recommendations for The Reregistration Eligibility Decision (RED,* dated June 27, 2007*;* and *Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED),*dated February 17, 2009.

a. Handler Exposure Risks

Occupational handler exposure assessments are conducted by the Agency using different levels of protection. The Agency typically evaluates all exposures with minimal protection and then adds protective measures in a tiered approach to determine the level of protection necessary to obtain appropriate MOEs. Since only inhalation exposures are of concern, only PPE relevant to the inhalation exposures were considered. The types of protection which were used to calculate inhalation occupational exposure from allethrins are as follows:

- Baseline: No respirator
- PF5 Respirator: Filtering facepiece respirator (i.e., dust mask) with a protection factor of 5
- PF50 Respirator: Full face respirator, with a protection factor of 50

Because most allethrin products are packaged in aerosol cans, the majority of the allethrin uses involve potential application exposures only; there are no mixing and loading exposures. There are also a few products packaged as ready-to-use (RTU) liquids or liquid concentrates, which are applied with mechanical sprayers, compressed air sprayers or foggers. These products are used in non-food commercial/ industrial/institutional areas, non-food greenhouses and non-food animal premises. Based upon these labels, the Agency assessed the following occupational handler scenarios:

Pesticide Control Operator Scenarios

1) Mix/Load/Apply (M/L/A) liquids with backpack sprayer or low-pressure (LP) handwand
2) Mix/Load/Apply liquids with high-pressure (HP) handwand
3) Mix/Load/Apply liquids with a fogger
4) Apply with aerosol can.

Risk estimates (i.e., MOEs) for the surface spray handler scenarios are summarized in Table 8. Most of the inhalation MOEs are above the target MOE of 100 without respirators (i.e., No Resp.) and, therefore, the inhalation risks are not of concern. The HP handwand scenario is of concern without respirators and requires a PF5 filtering facepiece respirator (i.e., dust mask) to achieve the target MOE.

Table 8. Occupational Handler Risks from Surface Spray Applications

Exposure Scenario	Dilution	Spray Dilution (Percent ai)	Amount Sprayed per Day	lb ai handled per day	Inhalation MOE
M/L/A liquids with LP hand-wand or backpack sprayer	Undiluted	3	40 gallons	10	300 – No Resp.
M/L/A liquids with LP hand-wand or backpack sprayer	Diluted in water	0.11	40 gallons	0.37	8100 – No Resp.
M/L/A liquids with HP hand-wand (Greenhouse Use)	Diluted in water	0.11	1000 gallons	9.2	**81 – No Resp.** 400 – PF5 Resp.
Aerosol Can application	Undiluted	0.54	6 (16 oz) cans	0.032	2300 – No Resp.

The risks for the space spray applications are summarized in Table 9. The MOEs are of concern (MOE < 100) when at all of the spray dilutions when respirators are not worn. At the highest spray dilution rate (3.0%), the MOEs are still of concern with a PF50 Full Face Respirators.

Table 9. Occupational Handler Risks from Space Spray Applications					
Label #	**Spray Dilution**	**Application Rate (lb ai/1000 ft^3)**	**Average Concentration (mg/m^3)**	**Respirator Worn**	**Inhalation MOE**
432-870	3.0	0.0020	16	None	**1.4**
1021-1478	1.5	0.0010	8.0		**2.8**
1021-1453	1.0	0.00067	5.4		**4.2**
432-870	3.0	0.0020	16	PF50 Full Face	**70**
1021-1478	1.5	0.0010	8.0		140
1021-1453	1.0	0.00067	5.4		210

b. Post-Application Exposure and Risk

The Agency uses the term "post-application" to describe exposures to individuals that occur as a result of being in an environment that has been previously treated with a pesticide (also referred to as reentry exposure). Allethrins are used as space sprays in a wide variety of indoor areas such as greenhouses, commercial institutions, and residences. For most of the commercial applicator labels, there are restrictions such as "Do not apply when people are present" or "Do not allow unprotected persons to enter until treated area has been thoroughly ventilated," which minimize post-application exposures. Given the use characteristics, occupational post-application inhalation exposures are anticipated primarily from automatic misting systems used in commercial/industrial horse barns, dog kennels and zoo animal quarters.

To evaluate occupational post-application risk, the commercial animal housing automatic misting system scenario was assessed. The resulting occupational post-application inhalation MOE is 245, which is greater than the target MOE of 100 and, therefore, is not of concern. Furthermore, this risk estimate is conservative, because it was assumed that the aerosols would remain airborne until they were removed by ventilation and the effects of aerosol settling were not considered. For additional information on the barn and stable autmotic misting system, see the *Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED)*, dated February 17, 2009, in the docket at http://www.regulations.gov under docket identification (ID) number EPA-HQ-OPP-2006-0986.

B. Environmental Risk Assessment

The outdoor uses for the allethrins are predominantly limited to foggers and spot treatments that are typically packaged as small, hand-held spray units and mosquito repellents (mats and coils). Although current label uses include several large-scale outdoor uses, they are not being supported. Since the registrant agreed to modify labels to remove, or limit to spot treatment only, any outdoor uses that could potentially be used as a broadcast treatment, risk from broadcast uses were not assessed. Since the allethrins are currently registered for use in some pet products (pet shampoos and dips), there is potential for aquatic organism exposure from indoor use of the allethrins, via surface water exposure following the release of household wastewater. Therefore, the Agency assessed ecological risk from both indoor and outdoor uses of allethrins. Because most of the standard methods used by the Agency for assessing

environmental risk are established for large-scale uses such as applications to agricultural fields or public health uses, the potential risk to the environment from allethrin spot treatment use is assessed qualitatively by considering uses, application methods, environmental fate properties, and toxicity data, and some risk quotients (RQs) were calculated for illustrative purposes.

A summary of the Agency's environmental fate and effects risk assessment is presented below. For detailed discussion of all aspects of the environmental risk assessment, please see the *Response to Comments (Phase 3) and Revised Environmental Fate and Ecological Risk Assesment in Support of the Reregistration of the Allethrins, dated April 4, 2007,* which is available under docket number EPA-HQ-OPP-2006-0986.

Terrestrial Organisms (Birds and Mammals)

The potential for risk to non-listed terrestrial organisms is limited or eliminated by the application methods described on the product labels. For instance, the use of Rainbow Wasp and Ant Spray (EPA Reg. No.13283-13) is intended as a spot treatment on wasp or other stinging insect hives. The registrant described the typical use of the spray as a 3-second directed application at a hive, which would result in an application of about 0.156 g to an area of about 1000 cm^2. This rate is equivalent to an application of about 13.8 lb ai/acre.

If this application rate is used as input to the TeRrestrial Exposure (T-REX) model, the acute and acute endangered species RQs for birds and mammals would exceed levels of concern (LOC). However, the exposure scenario is too unrealistic to expect risk to birds and mammals. To reach that level of exposure, birds or mammals would essentially need to consume the treated hive to ingest the allethrins applied by a directed spray.

The fogger application for the allethrins also represents an exposure scenario that is unlikely to result in risk to non-listed birds and mammals. The risk assessment considered exposure from the Raid Yard Guard Outdoor Fogger Formula VII (Reg. No. 4822-394), a total release fogger which could affect flying insects in a 15-by-15 foot area, releasing 1.07 g of allethrins along with another insecticide. If all the mass of allethrins were deposited in that 225 square-foot area, the application would be equivalent to about 0.47 lb ai/acre, and the resulting RQs would exceed the endangered species levels of concern for birds and mammals. However, that level of exposure to non-target birds and mammals is very unlikely. First, non-target animals would have to derive all of their food from the 15-by-15 foot area in which a person just placed a fogger, whether that area is a backyard patio or a lawn. Presumably, the fogger will have been placed in such an area so that people can be present, which makes the likelihood of feeding less likely. In addition, the fogger application is designed to keep the applied insecticides in the air, so that allethrins can work as a knockdown agent while the other insecticide takes effect. The applied material is unlikely to deposit solely within the 15-by-15 foot area, but would be dispersed over a wider area at a lower rate, dissipated by wind and degraded by photolysis.

No guideline data were submitted to evaluate the risk of allethrin exposure to non-target plants. However, the allethrins are not expected to induce phytotoxic effects because of their neural toxic mode of action, and available efficacy studies indicated no phytotoxic effects.

Although the Agency does not currently have standard LOCs for terrestrial invertebrates, risk to non-target invertebrates were considered. Based on an average fresh weight per honey bee of 128 milligrams, the LD_{50} of honey bees (3.9 µg/bee) can be multiplied by 7.8 to determine the ppm toxicity. Therefore, the contact LD_{50} of 3.4 µg/bee for allethrins can be converted to 26.5 ppm. Using the 'fruits/pods/seeds/large insects' category in T-REX as a surrogate for bees and an application rate of 13.8 lb a.i./acre results in an EEC for bees of 207 ppm using upper-bound Kenaga values. This equates to an RQ of 7.8. Since the Agency does not have standard LOCs for terrestrial invertebrates, for illustration purposes, the LOCs for other terrestrial animals was used (i.e., acute risk LOC = 0.5; acute endangered species LOC = 0.1). Using upper-bound Kenaga values, the application rate needed to reach the acute risk LOC for bees is 3.5 lb a.i./acre (1,842 cans), and the application rate needed to reach the endangered species LOC is 0.18 lb a.i./acre (95 cans of product).

Aquatic Organisms

There is potential for exposure to aquatic organisms from both the outdoor and indoor uses of the allethrins, so both uses were assessed. The standard models used by the Agency to estimate transport to surface water simulate application to agricultural fields, and cannot estimate surface water concentrations which might result from spot treatments or fogger use. Therefore, for illustrative purposes, the aquatic exposure that would result from spraying a can of Rainbow Wasp and Ant Spray (EPA Reg. No. 13283-13) directly into the standard pond used in OPP aquatic exposure model standard scenarios was determined. Based on a pond volume of 20 million liters and a total of 0.884 g of allethrin (a.i.), and assuming no degradation or sorption, the resulting concentration in the pond would be 0.0442 ppb. In order to achieve an exposure concentration equal to the toxic endpoints of concern for freshwater invertebrates (LC_{50} = 2.1 ppb) and freshwater fish (LC_{50} = 7.9 ppb), it would require the direct spraying of approximately 48 and 179 cans of product. To exceed the acute endangered species LOC of 0.05 for aquatic animals, it would require the simultaneous release into a standard farm pond of 2.4 cans (for freshwater invertebrates) and 9 cans (for freshwater fish). Thus, since actual use entails spraying a fraction of a can in a spot treatment on land, aquatic risk of concern to aquatic organisms from the outdoor uses of the allethrins is not anticipated.

Since the allethrins are currently registered for use in some pet products (pet shampoos and dips), there is potential for surface water exposure following the release of household wastewater. However, it would require atypically large quantities of pet products containing allethrins to reach an exposure concentration equal to the toxic endpoints of concern for freshwater animals. A "super size" bottle (21.6 fluid ounces) of Hartz Control Flea and Tick Conditioning Shampoo for Dogs (EPA Reg. No. 2596-124) contains 0.109% allethrin a.i. Assuming a conservative specific gravity for shampoo of 1.2 g/ml, a 21.6 ounce bottle of shampoo contains 766.6 g of product, including 0.836 g a.i. Therefore, a bottle of this product contains less active ingredient than a can of the wasp and hornet spray used in the example above and correspondingly higher numbers of bottles of shampoo would have to be released into the pond to result in risk exceedances.

1. Adverse Ecological Incidents

A search of the EIIS (Environmental Incident Information System) database for ecological incidents (run on Dec. 2, 2005) identified a total of one ecological incident involving an allethrin (allethrin; PC Code: 004001). The allethrin involved in the incident is no longer registered (*i.e.*, all of its uses have been cancelled). The incident occurred on a fish farm in Ventura County, CA, in Dec. 2000, and it involved the death of 13,000 rainbow trout. The reported cause of the incident was an act of sabotage (*i.e.*, it was the result of intentional misuse). The certainty index was reported as "highly probable" and it was reported that, "(t)here seemed to be no doubt about the cause of the fish kill," although no tissue or water samples were reported. Because the number of documented kills in EIIS is believed to be a very small fraction of total mortality caused by pesticides for a variety of reasons, absence of reports does not necessarily provide evidence of an absence of incidents given the nature of the incident reporting.

2. Endangered Species Considerations

Table 10 provides a matrix that depicts the potential for direct and indirect effects to listed species resulting from the use of allethrins.

Table 10. Listed species risk associated with direct or indirect effects due to applications of allethrins

Listed Taxon	Direct Effects[1]	Indirect Effects[2]
Terrestrial and semi-aquatic plants – monocots	None[3]	Possible[2]
Terrestrial and semi-aquatic plants - dicots	None[3]	Possible
Insects	None	Possible
Birds	No acute/ Possible chronic[2]	Possible
Terrestrial phase amphibians	No acute/ Possible chronic[2]	Possible
Reptiles	No acute/ Possible chronic[2]	Possible
Mammals	None	Possible
Aquatic vascular plants	None[3]	Possible
Freshwater fish	No acute/ Possible chronic[2]	Possible
Aquatic phase amphibians	No acute/ Possible chronic[2]	Possible
Freshwater crustaceans	No acute/ Possible chronic[2]	Possible
Mollusks	No acute/ Possible chronic[2]	Possible
Marine/estuarine fish	No acute/ Possible chronic[4]	Possible
Marine/estuarine crustaceans	No acute/ Possible chronic[4]	Possible

[1]Although, LOCs were not calculated, exposures are expected to be below all Agency acute LOCs for all outdoor uses.
[2] Because of a lack of chronic data for all taxa except mammals, the potential for chronic direct effects or indirect effects cannot be dismissed.

[3] No guideline data were submitted to evaluate the risk of allethrin exposure to non-target plants, however, the allethrins are not expected to induce phytotoxic effects because of their neural toxic mode of action.
[4] No acute or chronic data are available.

Acute risks to listed species are not expected due to low application rates and the types of uses being assessed. Although the potential for chronic risk to any listed animal cannot be dismissed at this time because of a lack of available data, the very limited nature of ecological exposure from use of allethrin-containing products indicates that chronic risk is highly unlikely. However, a Not Likely to Adversely Affect (NLAA) determination for potential chronic risk to listed species would require a more definitive assurance that adverse, chronic effects would not occur.

IV. Risk Management, Reregistration, and Tolerance Reassessment Decision

A. Determination of Reregistration Eligibility

Section 4(g)(2)(A) of FIFRA calls for the Agency to determine, after submission of relevant data concerning an active ingredient, whether or not products containing the active ingredient 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 the allethrins as 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 the allethrins.

The Agency has completed its assessment of the human health and ecological risks associated with the use of pesticide products containing the allethrins. The Agency has determined that allethrin-containing products are eligible for reregistration provided that label amendments are made as outlined in Chapter V. Appendix A summarizes the uses of the allethrins that are eligible for reregistration. Appendix B identifies the generic data requirements that the Agency reviewed as part of its determination of reregistration eligibility of the allethrins, and lists the submitted studies that the Agency found acceptable.

Based on its evaluation of the allethrins, the Agency has determined that products containing allethrins, unless labeled and used as specified in this document, would present risks inconsistent with FIFRA. Accordingly, should a registrant fail to implement any of the risk mitigation measures identified in this document, the Agency may take regulatory action to address the risk concerns from the use of the allethrins. If all changes outlined in this document are incorporated into the product labels, then all current risks for the allethrins will be adequately mitigated for the purposes of this determination under FIFRA.

B. Public Comment Period

Through the Agency's public participation process, EPA worked with stakeholders and the public to reach the regulatory decisions for the allethrins. EPA released the allethrins preliminary risk assessments for public comment on December 27, 2006, for a 60-day public comment period (Phase 3 of the public participation process). During the public comment period on the risk assessments, which closed on February 26, 2007, the Agency received comments from the technical registrants, the California Regional Water Quality Control Board, S.F. Bay Region, and the California Stormwater Quality Association (CASQA). These comments in their entirety, responses to the comments, as well as the preliminary and revised risk assessments, are available in the public docket (OPP-2006-0986) at http:www.regulations.gov.

C. Regulatory Position

1. Regulatory Rationale

The Agency has determined that products containing allethrins are eligible for reregistration provided that specified label amendments are made. The following is a summary

of the rationale for managing risks associated with the use of allethrins. Where labelling revisions are warranted, specific language is set forth in the summary table of Section V.

a. Human Health Risk Management

i. Occupational Risk Mitigation

The occupational handler exposure scenarios that were assessed included surface spray applications using a low-pressure handwand, high-pressure handwand or aerosol can, and indoor space spray applications using handheld foggers. All estimated MOEs for surface sprays are above the target MOE of 100 and the risks are not of concern, except for the high pressure handwand scenario. This scenario is of concern with an MOE of 81 and a PF5 filtering facepiece respirator (i.e., a dust mask) is required to achieve the target MOE. The handheld fogger scenario is also of concern with MOEs ranging from 1.4 (spray dilution rate of 3.0%) to 4.2 (spray dilution of 1.0%) with no respirator. To mitigate occupational handler risk from handheld fogger applications, the maximum spray dilution rate will be reduced from 3.0% to 1.5%, and a Full Face (PF50) respirator will be required, resulting in an MOE of 140, which is below the Agency's LOC.

The animal barn misting system scenario was assessed, as this scenario is anticipated to have the highest occupational post-application exposure potential. The occupational post-application risk estimate for the the automatic misting system was below the Agency's LOC (i.e., MOE was above 100); therefore, no mitigation measures are required.

ii. Residential Risk Mitigation

<u>Handler Risk</u>

Residential handler exposures were assessed for aerosol can application to a variety of use sites. All of the handler MOEs exceed the target MOE of 1000; therefore, the handler risks are not of concern, and no mitigation measures are required.

<u>Post-Application Risk (Inhalation Exposure)</u>

Residential post-application inhalation exposures from consumer-use products were assessed for consumer-use space sprays, yard and patio foggers, mosquito coils and fly mats. The short/intermediate-term inhalation MOEs for consumer-use space sprays, when assessed at the highest labeled application rate of 0.50% ai, range from 650 to 2100 for children and adults, respectively. The registrant has agreed to reduce the application rate on surface sprays to 0.25%, and when calculated at this reduced rate, the MOEs range from 1300 to 4200 for children and adults, respectively. Since the lowest MOE (1300) is above the target level of concern of 1000, no additional mitigation is necessary.

The 6 oz. yard and patio fogger, with MOEs ranging from 160 to 310, will be voluntarily cancelled by the technical registrant. The 1.5 oz. yard and patio fogger scenario is only of concern when the product is in the form of a total release fogger. The yard and patio scenario is

not of concern when the product is in the form of a hand-held fogger. Although both product forms are on the same product label (registration number 4822-394), the hand-held form is more typically found on retail shelves and likely represents the majority of usage. This is supported by the Residential Exposure Joint Venture (REJV) survey which indicated that most of the allethrin-containing yard and patio fogger products in the household inventory were hand-held foggers. The hand-held fogger contains approximately 454 grams of product, which is enough for approximately 9 sprays based upon the nozzle discharge rate of 6 grams per second and a spray duration of 9 seconds. By contrast, the total release foggers can only be used once, because they discharge their entire contents upon activation. It should also be noted that the toxicological point of departure (POD) selected to assess inhalation exposures (see Table 5), which is a NOAEL of 1.3 mg/kg/day observed in the inhalation study, may be an artifact of dose spacing, because it is five times lower than the LOAEL of 6.5 mg/kg/day. For this scenario, the estimated MOE is 650 with a NOAEL of 1.3 mg/kg/day; however, with only a slightly higher NOAEL of 2.0 mg/kg/day, the estimated MOE would be 1000. Considering the dose spacing for this study, the Agency has minimal concern with an estimated MOE of 650 for this scenario; thus, no mitigation is necessary.

While the label for the animal premise automatic misting system product limits the product's use to commercial and industrial horse barns, dog kennels, and zoo quarters, that does not preclude possible non-occupational exposure. Commercial horse barns and dog kennels can be frequented by individuals other than workers. For instance, some people board their horses at commercial stables. Currently, the Agency does not have a SOP to assess non-occupational post-application exposure for the "hobby barn" scenario. The Agency is currently revising SOPs and is considering assessing post-application exposure for those who may be exposed to this scenario. While the assumptions in the occupational exposure scenario (i.e., 8 hours spent in the barn) are likely an overestimate of risk, the Agency has no information at this time to characterize the amount of time horse owners that board their horses spend in commercial stables. The animal barn misting system MOE of 245 (based on an 8-hour exposure duration), is below the non-occupational (or residential) target MOE of 1000. For exposure durations 1.5 hours or less, the animal barn misting system risk estimate is above the non-occupational target MOE of 1000 and, therefore, is not of concern. Furthermore, the risk for the metered release scenario is conservative, since it was assumed that the aerosols would remain airborne until they were removed by ventilation, and the effects of aerosol settling were not considered. To reduce potential exposure, the registants have agreed to add precautionary language to the product labels instructing users to operate misters when people are unlikely to be present. Upon development of SOPs to assess non-occupational post-application exposures for hobby barn scenarios, the Agency intends to reevaluate this exposure scenario during Registration Review.

Post-Application Risk (Incidental Oral Exposure)

Residential post-application incidental oral exposures were assessed for consumer applied indoor foggers, PCO-applied broadcast surface sprays, and consumer-applied spot treatment surface sprays. The MOEs for most consumer-use scenarios are greater than 1000, and are not of concern. The estimation of residue levels, and associated incidental oral risk, that result from consumer surface applications using aerosol can products for the allethrins were variable, depending upon the products' directions for use and the percent a.i. in the product.

Although the application rates range from 0.5% to 0.05%, most of the variability in estimated exposures was based on the use directions for the products. Some consumer-use surface sprays containing allethrins specify that only spot treatments be made to areas such as cracks and crevices in walls, corners of rooms, cabinets, closets, along and behind baseboards, beneath and behind sinks, stoves, refrigerators and cabinets, around plumbing and other utility installations and wherever else these pests may find entrance. Several labels also include instructions to treat carpets by covering the entire surface until slightly moist. A broadcast use of a surface spray containing allethrins is not typical, and these uses were not assessed, because the registrant voluntarily agreed to amend labels to restrict use to spot treatment only. The incidental oral MOEs from consumer surface spray products, when limited to spot treatments only, are greater than or approaching the target MOE of 1000 and not of concern. The technical registrant also agreed to reduce the application rate to 0.25% for consumer use surface sprays. With this mitigation, the MOEs for children with spot treatments applied to carpet are 1900, and therefore, no additional mitigation is necessary.

Residential post-application incidental oral risk estimates from PCO uses are less than the target MOE at the highest currently registered concentration of 3% a.i, with MOEs ranging from 16 (intermediate-term exposure on carpet) to 28 (short-term exposure on vinyl). To mitigate this risk, the registrant has agreed to limit the residential PCO product labels to a 0.1% a.i. spray dilution rate, and amend labels to reduce the volume of product to be applied from 1 gallon per 1000 sq ft to 0.5 gallons per 1000 square feet. This will result in intermediate-term incidental oral MOEs for children greater than or approaching the target MOE of 1000, and are not of concern.

Risk to children playing with pets that have been treated with pet sprays containing allethrins was also assessed. The short- and intermediate-term incidental oral MOEs were 2100 and 860, respectively. To mitigate risk from the pet sprays and other pet uses, the registrants have agreed to cancel all pet uses. Therefore, risk from pet sprays containing allethrins is no longer of concern.

<u>The following is a summary of the human health mitigation measures:</u>

- The residential PCO product labels will be limited to a 0.1% spray dilution rate, and language to labeling will be added reducing the volume from 1 gallon per 1000 sq ft to 0.5 gallons per 1000 square feet.

- The maximum spray dilution for indoor fogging applications will be reduced from 3.0 percent (as listed on the Esbiol 300 Insect label, Reg. No. 432-870) to 1.5 percent.

- For occupational handlers applying surface sprays with high pressure handwands, a PF5 filtering facepiece respirator (i.e. a dust mask) will be required in order to reach the target MOE of 100.

- For occupational handlers applying space sprays with handheld foggers, a PF50 Full Face respirator with appropriate cartridges will be required in order to reach the target MOE of 100.

- The consumer surface spray product labels will be changed to require spot treatment only. The broadcast surface applications to rugs and carpets will be eliminated.

- The consumer surface and space sprays, with concentrations currently ranging from 0.5% to 0.05% ai in products, will be limited to 0.25% ai.

- The use of the 6 ounce outdoor total release fogger will be deleted from the Raid Yard Guard label (4822-394).

- The pet uses (aerosol sprays and shampoos) will be cancelled.

b. Ecological Risk Management

The Agency evaluated potential ecological risk from both indoor and outdoor uses of the allethrins. The technical registrant voluntarily agreed to cancel pet shampoos and dips; therefore, there is no longer potential ecological exposure from indoor products containing allethrins, and no further mitigation is necessary for indoor uses.

Although current label uses include several potentially large-scale outdoor uses, they are not being supported by the technical registrant. Thus, the registrants have agreed to make the following changes to the allethrins labels:

- Uses on boat/ship hulls will be deleted.

- Kennels/stables and commercial premise uses (outdoor and area sprays) will be deleted or limited to spot treatments. Use of allethrins in commercial animal premise automatic misting systems is still allowed.

- Outdoor ornamental use sites will be specified and will be limited to spot use.

- Outdoor mosquito adulticide use will be deleted or limited to localized spray.

- Outdoor commercial area space spray uses will be limited to localized treatments.

- Perimeter spray uses will be limited to localized treatments.

- Uses in or on drainage systems, golf course turf, wide area/general outdoor treatment, airports/landing fields, uncultivated agricultural areas, and paved areas such as sidewalks and roads will all be deleted.

Because outdoor uses will be limited to localized spot treatments, no additional mitigation measures for these uses are required.

2. Endocrine Disruptor Effects

Following recommendations of its Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC), EPA determined that there was a scientific basis for including, as part of the program, the androgen and thyroid hormone systems, in addition to the estrogen hormone system. EPA also adopted EDSTAC's recommendation that EPA include evaluations of potential effects in wildlife. For pesticides, EPA will use FIFRA and, to the extent that effects in wildlife may help determine whether a substance may have an effect in humans, FFDCA authority to require the wildlife evaluations. As the science develops and resources allow, screening of additional hormone systems may be added to the Endocrine Disruptor Screening Program (EDSP).

When the appropriate screening and/or testing protocols being considered under the EDSP have been developed, individual pesticides may be subject to additional screening and/or testing. However, in the available toxicity studies for the allethrins, there was no evidence of endocrine disruption.

3. Endangered Species

The Endangered Species Act required federal agencies to ensure that their actions are not likely to jeopardize listed species or adversely modify designated critical habitat. The Agency has developed the Endangered Species Protection Program to identify pesticides whose use may cause adverse impacts on federally listed endangered and threatened species, and to implement mitigation measures that address these impacts. To assess the potential of registered pesticide uses that may affect any particular species, EPA puts basic toxicity and exposure data developed for the REDs into context for individual listed species and considers ecological parameters, pesticide use information, the geographic relationship between specific pesticide uses and species locations and biological requirements and behavioral aspects of the particular species. When conducted, these analyses take into consideration any regulatory changes recommended in this RED being implemented at that time. A determination that there is a likelihood of potential effects to a listed species may result in limitations on the use of the pesticide, other measures to mitigate any potential effects, and/or consultations with the Fish and Wildlife Service or National Marine Fisheries Service, as necessary. If the Agency determines use of allethrins "may affect" listed species or their designated critical habitat, EPA will employ the provisions in the Services regulations (50 CFR Part 402).

The ecological assessment that EPA conducted for this RED does not, in itself, constitute a determination as to whether specific species or critical habitat may be harmed by the pesticide. Rather, this assessment serves as a screen to determine the need for any species specific assessment that will evaluate whether exposure may be at levels that could cause harm to specific listed species and their critical habitat. That assessment refines the screening-level assessment to take into account the geographic area of pesticide use in relation to the listed species, the habits and habitat requirements of the listed species, etc. If the Agency's specific assessments for allethrins result in the need to modify use of the pesticide, any geographically specific changes to the pesticide's registration will be implemented through the process

described in the Agency's Federal Register Notice (54 FR 27984) regarding implementation of the Endangered Species Protection Program.

The Agency has reviewed data and other information for the allethrins and concludes that this series of insecticides does not pose a risk of direct acute effects to any species listed under the Endangered Species Act, because EPA's screening-level, qualitative assessment indicates that these uses are not likely to adversely affect listed species on an acute basis. The likelihood of adverse effects from chronic exposure to mammals is also considered low. However, the potential risk to all other taxa from chronic exposure to allethrins cannot be assessed at this time due to a lack of data.

D. Labeling Requirements

In order to be eligible for reregistration, various use and safety information will be included in the labeling of all end-use products containing the allethrins. For the specific labeling statements, refer to Section V of this RED document.

V. What Registrants Need to Do

The Agency has determined that products containing allethrins are eligible for reregistration provided that the required label amendments are made. The Agency intends to issue Data Call-In Notices (DCIs) requiring product-specific data. Generally, registrants will have 90 days from receipt of a DCI to complete and submit response forms or request time extension and/or waiver requests with a full written justification. For product-specific data, the registrant will have eight months to submit data. Below are the label amendments that the Agency intends to require for the allethrins to be eligible for reregistration.

A. Manufacturing Use Products

2. Additional Generic Data Requirements

The generic data base supporting the reregistration of the allethrins for currently registered uses has been reviewed and determined to be substantially complete. However, a few data gaps remain, and these are listed below.

<u>Occupational Exposure</u>
875.1400 Inhalation Exposure Indoor

<u>Residue Chemistry</u>
860.1650 Submittal of Analytical Reference Standards

<u>Toxicology</u>
Since the allethrins database is currently incomplete with respect to data on potential pre- and postnatal toxicity, the Agency is requiring a study to address this uncertainty. The Agency is currently evaluating whether a developmental toxicity study (DNT) or another comparative toxicity study would be best-suited for addressing the concerns for sensitivity to young animals. The registrants should consult with the Agency before beginning a study to fulfill this data requirement.

2. Labeling for Manufacturing-Use Products

To ensure compliance with FIFRA, manufacturing-use product (MUP) labeling should be revised to comply with all current EPA regulations, PR Notices, and applicable policies. The MUP labeling should bear the labeling contained in Tables 11 and 12.

B. End-Use Products

1. Additional Product-Specific Data Requirements

Section 4(g)(2)(B) of FIFRA calls for the Agency to obtain any needed product-specific data regarding the pesticide after a determination of eligibility has been made. The Registrant must review previous data submissions to ensure that they meet current EPA acceptance criteria and if not, commit to conduct new studies. If a registrant believes that previously submitted data

meet current testing standards, then the study MRID numbers should be cited according to the instructions in the Requirement Status and Registrants Response Form provided for each product. The Agency intends to issue a separate product-specific data call-in (PDCI), outlining specific data requirements. For any questions regarding the PDCI, please contact Bonnie Adler at 703-308-8523.

2. Labeling for End-Use Products

To be eligible for reregistration, labeling changes are necessary to implement measures outlined in Section IV above. Specific language to incorporate these changes is specified in Tables 11 and 12. Generally, conditions for the distribution and sale of products bearing old labels/labeling will be established when the label changes are approved. However, specific 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.

C. Labeling Changes Summary Table

In order to be eligible for reregistration, amend all product labels to comply with the following tables. Tables 11 and 12 describe how language on the labels should be amended.

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
Manufacturing Use Products		
For all Manufacturing Use Products	"Only for formulation into an ***insecticide*** for the following use(s) [fill blank only with those uses that are being supported by MP registrant]." "Not for formulation into end use products with directions for use as an application directly to pets." "Formulation into ready-to-use total release foggers with directions for use outdoors is limited to a maximum of 1.5 ounces of product per container." "Formulation into products with directions for use as a spot treatment is limited to a maximum 0.25% a.i. dilution strength." "Formulations with greater than 0.1% a.i. dilution strength must contain directions for use limiting applications in indoor residential settings to spot treatments only. Indoor broadcast use must be prohibited." "Formulation into products with directions for use as a broadcast spray outdoors is prohibited. Outdoor use is limited to spot treatments only." (NOTE: outdoor broadcast use with ready-to-use total release foggers is permitted.) "Not for formulation into products for use in or on drainage systems, golf course turf, airports/landing fields, uncultivated agricultural areas, boat/ship hulls, and paved areas such as sidewalks and roads."	Directions for use
One of these statements may be added to a label to allow reformulation of the product for a specific use or all	"This product may be used to formulate products for specific use(s) not listed on the MP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of	Directions for Use

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
additional uses supported by a formulator or user group	such use(s)." "This product may be used to formulate products for any additional use(s) not listed on the MP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s)."	
Environmental Hazards Statements	"ENVIRONMENTAL HAZARDS" "This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing 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 Environmental Protection Agency."	Precautionary Statements – Environmental Hazards
End-Use Products Intended for Occupational Use (WPS and Non-WPS)		
PPE Requirements[1] for Ready To Use (RTU) Formulations (RTU Liquids and Pressurized Liquids)	"Personal Protective Equipment (PPE)" "Some materials that are chemical-resistant to this product are [registrant inserts correct material(s)]." For more options, follow the instructions for category [insert A, B, C, D, E, F, G or H] on the chemical-resistance category selection chart. "Applicators and other handlers must wear: long-sleeved shirt and long pants, and shoes and socks."	Immediately following/below Precautionary Statements: Hazards to Humans and Domestic Animals
PPE Requirements for Liquid Concentrates including Emulsifiable Concentrates Note: If the use of high pressure handwands or handheld foggers is	"Personal Protective Equipment (PPE)" "Some materials that are chemical-resistant to this product are [registrant inserts correct material(s)]." For more options, follow the instructions for category [insert A, B, C, D, E, F, G or H] on the chemical-resistance category selection chart.	Immediately following/below Precautionary Statements: Hazards to Humans and Domestic Animals

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
prohibited or is not feasible for the end-use product, the statement requiring respirators for those uses may be omitted.	"Applicators and other handlers must wear: long-sleeved shirt and long pants, and shoes and socks." "In addition to the above PPE, applicators using high-pressure handwands must wear a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N*, R, P, or HE filter." "In addition to the above PPE, applicators using hand-held foggers must wear a full-face, or helmet/hood-style NIOSH-approved respirator with: -- a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or -- a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or -- a cartridge or canister with any N*,R, P or HE filter." *Instruction to Registrant: Drop the "N" type prefilter from the respirator statement, if the pesticide product contains or is used with oil.	
User Safety Requirements	"Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry." "Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them."	Precautionary Statements: Hazards to Humans and Domestic Animals immediately following the PPE requirements
User Safety Recommendations	"User Safety Recommendations" "Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet." "Users should remove clothing/ PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing." "Users should remove PPE immediately after handling this product. Wash	Precautionary Statements under: Hazards to Humans and Domestic Animals (Must be placed in a box.)

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
	the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing."	
Environmental Hazard Statements on Liquid Concentrate Consumer Outdoor Products (e.g., liquids mixed with water by the user for a tank sprayer or hose-end attachment)	"To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems."	Precautionary Statements – Environmental Hazards
Environmental Hazard Statements on Liquid Ready-to-Use Consumer Outdoor Products (except aerosols)	"To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area."	Precautionary Statements – Environmental Hazards
Environmental Hazard Statements on Aerosol Consumer (including foggers) Outdoor Products	"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters."	Precautionary Statements – Environmental Hazards
Environmental Hazards Statements for Products Labeled for Indoor Uses Only	"ENVIRONMENTAL HAZARDS" "This product is toxic to fish and aquatic invertebrates. Do not contaminate water when disposing of equipment, washwater, or rinsate. See Directions for Use for additional precautions and requirements." **For indoor commercial, industrial or institutional products packaged in containers equal to or greater than 5 gallons or 50 lbs add the following statement:** "Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to	Precautionary Statements – Environmental Hazards

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
	sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA."	
Restricted-Entry Interval for Products with Directions for use Within Scope of the Worker Protection Standard for Agricultural Pesticides (WPS) *For Products Subject to WPS as required by Supplement 3 of PR Notice 93-7*	"Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours."	Directions for Use, Under Agricultural Use Requirements Box
Early Entry Personal Protective Equipment *For Products Subject to WPS as required by Supplement 3 of PR Notice 93-7*	"PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls, shoes and socks, and chemical-resistant gloves made of any waterproof material."	Directions for Use, in Agricultural Use Requirements Box
Entry Restrictions for Non WPS Uses	**Entry Restriction for product applied as a surface spray:** "Do not enter or allow unprotected persons to enter until treated areas have dried." **Entry Restriction for products applied as a space spray:** "Do not allow unprotected persons to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated." **Entry Restriction for products formulated as total release aerosol foggers with directions for use indoors:** "Do not re-enter building for four hours, then open exterior doors and windows and allow to air for 60 minutes before reoccupying area."	If no WPS uses on the product label, place the appropriate statement in the Directions for Use Under General Precautions and Restrictions. If the product also contains WPS uses, then create a Non-Agricultural Use Requirements box as directed in PR Notice 93-7 and place the appropriate statement inside that box.
General Application Restrictions	"Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in	Place in the Directions for Use directly above the Agricultural Use

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
	the area during application."	Box
Application Restrictions- Indoor Surface Sprays in Residential Settings	Application rates for broadcast use indoors in residential settings are limited to no greater than 0.1% active ingredient dilution strength. **NOTE to Registrant**: the end-use product label must provide specific dilution instructions for attaining this maximum dilution strength. "When applied as a broadcast spray indoors in residential settings, use is limited to no more than 0.5 gallons dilute spray per 1000 square feet."	Place in the Directions Under Application Restrictions.
Application Restrictions- Residential Handheld Fogger Use	Application rates for products labeled for indoor fogger use are limited to a maximum of 1.5% active ingredient dilution strength. **NOTE to Registrant**: the end-use product label must provide specific dilution instructions for attaining this maximum dilution strength.	Place in the Directions Under Application Restrictions.
Application Restrictions- Outdoor Uses, except on total release foggers	"Outdoor uses are limited to spot treatments only. Broadcast applications are prohibited." "Do not water the treated area to the point of run-off." "Do not make applications during rain."	Place in the Directions Under Application Restrictions.
General Appliction Restrictions for All Products That Do Not Contain Directions for Use in Drains or Sewers	**Products labeled for use around or near floor drains must contain the following statement.** "Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application."	Directions for Use
End Use Products Primarily Used by Consumers/Homeowners		
Environmental Hazard Statements on Liquid Concentrate Consumer Outdoor Products (e.g., liquids mixed with water by the user for a tank sprayer or hose-end attachment)	"To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems."	Precautionary Statements – Environmental Hazards

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
Environmental Hazard Statements on Liquid Ready-to-Use Consumer Outdoor Products (except aerosols)	"To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area."	Precautionary Statements – Environmental Hazards
Environmental Hazard Statements on Aerosol Consumer (including foggers) Outdoor Products	"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters."	Precautionary Statements – Environmental Hazards
Application Restrictions- Outdoor Uses (except total release foggers)	"Outdoor uses are limited to spot treatments only. Broadcast applications are prohibited." "Do not water the treated area to the point of run-off." "Do not make applications during rain."	Place in the Directions Under Application Restrictions.
General Appliction Restrictions for All Products That Do Not Contain Directions for Use in Drains or Sewers	**Products labeled for use around or near floor drains must contain the following statement.** "Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application."	Directions for Use
Entry Restrictions	Products applied as a spray: "Do not allow adults, children, or pets to enter the treated area until sprays have dried."	Directions for use under General Precautions and Restrictions
Indoor Misting Systems Used in Commercial Barns, Stables, and Animal Quarters	**"Directions for use in commercial animal premise automatic misting systems"** "Not for use in outdoor residential misting systems (indoor or outdoor)." "Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained."	Directions for Use under General Precautions and Restrictions and/or Application Instructions

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
	"Do not apply when food, feed, and/or water is present." "Do not apply directly to animals." "When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed." "When applying via a remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present." "Direct nozzles to spray towards the target area and away from areas where people are typically present." "Do not use in an evaporative cooling system." "Do not use in misters located within 3 feet of air vents, air conditioner units, or windows." "If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: this container holds __ parts [*product name*] to __ parts water" "If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve." (These instructions not applicable to wettable powder products). "This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.0003 lb a.i./1000	

Table 11. Summary of Labeling Changes for All Allethrin Uses EXCEPT for Use in Coils and Mats (See Table 12 for labeling requirements in coils and mats.)		
Description	**Amended Labeling Language**	**Placement on Label**
	ft^3." **Note to registrant**: Also express this application rate as pounds or gallons of end-use product formulation.	
General Application Restrictions	"Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift."	Place in the Direction for Use
Application Restrictions- for Indoor Use at Residential Sites	Surface and space sprays will be limited to concentrations no greater than 0.25% a.i. Surface spray uses are limited to spot treatments only. Broadcast surface applications are prohibited".	Application Restrictions- for Indoor Use at Residential Sites

[1] PPE that is established on the basis of Acute Toxicity of the end-use product must be compared to the active ingredient PPE in this document. The more protective PPE must be placed in the product labeling. For guidance on which PPE is considered more protective, see PR Notice 93-7.

Table 12. Summary of Labeling Changes for Allethrins Used in Coils and Mats Only		
Description	**Amended Labeling Language**	**Placement on Label**
Manufacturing Use Products		
For all Manufacturing Use Products	"Only for formulation into an ***insecticide*** for the following use(s) [fill blank only with those uses that are being supported by MP registrant]."	Directions for use
One of these statements may be added to a label to allow reformulation of the product for a specific use or all additional uses supported by a formulator or user group	"This product may be used to formulate products for specific use(s) not listed on the MP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s)." "This product may be used to formulate products for any additional use(s) not listed on the MP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s)."	Directions for Use
Environmental Hazards Statements	"ENVIRONMENTAL HAZARDS" "This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the	Precautionary Statements – Environmental Hazards

Table 12. Summary of Labeling Changes for Allethrins Used in Coils and Mats Only		
Description	**Amended Labeling Language**	**Placement on Label**
	permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing 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 Environmental Protection Agency."	

Appendix A. Use Patterns Eligible for Reregistration for the Allethrins			
Use Type	**Maximum Concentration**	**Restrictions**	**Formulation or Application Type**
Indoor Spot Treatment	0.25% a.i.	Spot treatments only. Remove food and animals from premises prior to treatment. Do not allow children or pets on treated areas until surfaces are dry.	Surface spray, aerosol can, ready to use (RTU)
Indoor Space Spray	0.25% a.i.	Remove food and animals from premises prior to treatment. Do not allow children or pets on treated areas until surfaces are dry.	Aerosol can
Indoor Fogger	3% a.i.	Do not re-enter building for 4 hours. Open exterior doors and windows and allow to air for one hour before reoccupying area. Remove food and animals from premises prior to treatment. Do not allow children or pets on treated areas until surfaces are dry.	Total release aerosol, stationary fogger
Indoor Residential Broadcast (PCO Use Only)	0.1% a.i. spray dilution rate	Limited to 0.5 gallons per 1,000 ft^2. Remove food and animals from premises prior to treatment. Do not allow children or pets on treated areas until surfaces are dry. No broadcast application to rugs and carpets. Do not enter treated areas without protective equipment until surfaces are dry.	Space and surface spray, high and low pressure handwand, RTU
	1.5% a.i. spray dilution for indoor fogging applications	Remove food and animals from premises prior to treatment. Do not allow children or pets on treated areas until surfaces are dry. Do not enter treated areas without protective equipment until surfaces are dry.	Handheld fogger, RTU, ultra low-volume (ULV) space spray

Appendix A. Use Patterns Eligible for Reregistration for the Allethrins			
Use Type	**Maximum Concentration**	**Restrictions**	**Formulation or Application Type**
Indoor Commercial/ Institutional/ Industrial Broadcast and Spot Treatment (PCO Use Only)	1.5% a.i. spray dilution rate	Remove food and animals from premises prior to treatment. Do not apply in schools, daycares, or other locations where children are present.	ULV space spray, aerosol can, foliar spray liquid concentrate
Outdoor Space Spray (PCO Only)	0.0003 lb ai/1000 ft^3	Spot treatments only. Remove food and animals from treatment area. Do not allow children or pets on treated areas until surfaces are dry.	Handheld fogger , RTU, ultra low-volume (ULV) space spray, foliar spray liquid concentrate
Outdoor Spot Treatment and Ornamental Trees, Plants, Lawns, Shrubs, and Vines	0.25% a.i.	Spot treatments only. Remove food and animals from treatment area. Do not allow children or pets on treated areas until surfaces are dry.	Space and surface sprays, aerosol cans, foliar spray liquid concentrate
Wasp and Hornet Nest	0.25% a.i.	Outdoor spot treatments or limited occupancy areas (i.e. attics, barns, storage sheds) only. Remove food and animals from treatment area. Spray nest for 2 – 3 seconds.	Aerosol, ready-to-use (RTU)
Handheld Yard and Patio Fogger	0.15% a.i.	Maximum product size is 16 oz. Outdoor use only. Remove food and animals from treatment area. Do not allow children or pets on treated areas until surfaces are dry.	Handheld fogger

Appendix A. Use Patterns Eligible for Reregistration for the Allethrins			
Use Type	**Maximum Concentration**	**Restrictions**	**Formulation or Application Type**
Total Release Yard and Patio Fogger	0.15% a.i.	Maximum product size is 1.5 oz. Outdoor use only. Remove food and animals from treatment area. Do not allow children or pets on treated areas until surfaces are dry.	Total release aerosol stationary fogger
Commercial Barns, Stables, Animal Quarters	0.0003 lb a.i./1000 ft^3	Set automatic sprayer timer to operate only once per hour, with spray duration not to exceed one minute. Do not use in barns that contain domestic animals (poultry, cattle, horses, swine, goats, and sheep), that may be used for human consumption. Do not use in thermal generating equipment.	Automatic spraying system
Mosquito Coil	0.34% a.i.	Outdoor use only.	Coils
Repellent Mat	24% a.i.	Maximum product size is 2.3 gram. Outdoor use only.	Mats

Appendix B. Data Supporting Guideline Requirements for Allethrins

Data Supporting Guideline Requirements for the Reregistration of Allethrins			
Guideline Number	**Study Description**	**Use Pattern**	**Citation(s)**
PRODUCT CHEMISTRY			
830.1600	Starting Materials & Manufacturing Process	All	40923801 (upgradable) 41953901 (upgradable)
830.1670	Formation of Impurities	All	40923801 (upgradable) 40923803 (upgradable) 41953901 (upgradable)
830.1700	Preliminary Analysis	All	41953902 40923801 (upgradable) 40923803 (upgradable) 41953802 (upgradable)
830.6302	Color	All	40923801, 40923803, 42049901
830.6303	Physical State	All	40923801, 40923803, 42049901
830.6304	Odor	All	40923801, 40923803, 42049901
830.6313	Stability	All	43752303, 43820101 40923801 (upgradable) 40923803 (upgradable)
830.6317	Storage Stability	All	40923801 (upgradable) 42049901 (upgradable)
830.7000	pH	All	40923801, 40923803, 42049901
830.7050	UV/Visible Absorption	All	Required
830.7200	Melting Point	All	40923801, 40923803, 42049901
830.7220	Boiling Point	All	40923801, 40923803, 42049901
830.7300	Density	All	40923801, 40923803, 42049901
830.7370	Dissociation Constant	All	40923801 (upgradable) 40923803 (upgradable) 42049901 (upgradable)
830.7550	Octanol/Water Partition Coefficient	All	41115302 40923801 (upgradable) 40923803 (upgradable) 42049901 (upgradable)
830.7840 830.7860	Solubility	All	41115302, 42193303, 40923801 (upgradable) 40923803 (upgradable) 42049901 (upgradable)
830.7950	Vapor Pressure	All	41115307, 42193303, 43721101 40923801 (upgradable) 40923803 (upgradable)

Data Supporting Guideline Requirements for the Reregistration of Allethrins			
Guideline Number	**Study Description**	**Use Pattern**	**Citation(s)**
ECOLOGICAL EFFECTS			
850.1010	Aquatic Invertebrate Acute Toxicity - Water flea	All	40098001, 43235801
850.1075	Fish Acute Toxicity, Freshwater and Marine - Multiple Species	All	122546, 40098001
850.2100	Avian Acute Oral Toxicity – Quail and duck	All	27548, 123339
850.3020	Honey Bee Acute Contact	All	49254, 162751
TOXICOLOGY			
870.1100	Acute Oral Toxicity	All	00151444, 00151449, 00151460, 41017101
870.1200	Acute Dermal Toxicity	All	00151451, 41017102, 41155801, 41155802
870.1300	Acute Inhalation Toxicity	All	00151452, 41017103, 41670801, 42906902
870.2400	Acute Eye Irritation	All	00151454, 41017104, 41155803, 41155804
870.2500	Acute Dermal Irritation	All	00151453, 41017104, 41155805, 41155806
870.2600	Skin Sensitization	All	41017105, 41155807, 41155808, 42907001
870.3100	90-Day Oral Toxicity in Rodents	All	00151447 , 42920401, 43760401, 44047101
870.3150	90-Day Oral Toxicity in Non-rodents	All	00151447, 41519802, 43293401, 44013901
870.3200	21/28 -Day Dermal Toxicity	All	41691301, 44331701, 44683701
870.3465	90-Day Inhalation Toxicity	All	44517802
870.3700	Prenatal Developmental Toxicity	All	00078624, 41225802, 41225803, 41225804, 41225805, 41225806, 41632201, 41632202, 44657801, 44666301
870.3800	Reproduction and Fertility Effects, 2-Generation Reproduction	All	41246801, 41519801
870.4100	Chronic Toxicity	All	41099601, 41519802 41519802 (upgradable)
870.4200	Carcinogenicity	All	41099602, 41519803, 41519804, 42920401, 43760401
870.4300	Combined Chronic Toxicity/Carcinogenicity	All	00157916, 41519803
870.51xx	Bacterial Reverse Mutation Test	All	00133570,00151455, 00151456, 00151457, 41017106, 41115308, 41503702, 43696501, 43752301,43804401, 44479501

Data Supporting Guideline Requirements for the Reregistration of Allethrins			
Guideline Number	**Study Description**	**Use Pattern**	**Citation(s)**
870.5140	Gene Mutation (Ames Test)	All	43752301
870.5375	Structural Chromosomal Aberration	All	43696501, 43804401
870.6200	Neurotoxicity Screening battery	All	44517801, 46582501
870.6300	Developmental Neurotoxicity Study	All	Required
870.7485	Metabolism and Pharmacokinetics	All	41898501, 41898502
OCCUPATIONAL / RESIDENTIAL EXPOSURE			
875.1400	Indoor Inhalation Exposure	All	Required
Non-guideline	NDETF Study Volume 2: Post Application Deposition Measurements for Pyrethrins & Piperonyl Butoxide Following Use of a Total Release Fogger	All	46188602
Non-guideline	NDETF Study Volume 13: Measurement of Transfer of Pyrethrin and Piperonyl Butoxide Residues from Vinyl and Carpet Flooring Treated with a Fogger Formulation to DSS Wetted Hands Following a Single Hand Press	All	46188613
Non-guideline	NDETF Study Volume 18: Measurement of Air Concentration, Dermal Exposure and Deposition of Pyrethrin and Piperonyl Butoxide Following the Use of an Aerosol Spray	All	46188618
ENVIRONMENTAL FATE			
835.1240	Leaching/Adsorption/Desorption	All	41900401
835.2110	Hydrolysis as a Function of pH	All	41504401
835.4100	Aerobic Soil Metabolism	All	42336501, 42336502 42678901

Appendix C. Technical Support Documents

Additional documentation in support of the Allethrins RED is maintained in the OPP Regulatory Public Docket, located in Room S-4400 One Potomac Yard (South Building), 2777 S. Crystal Drive, Arlington, VA. It is open Monday through Friday, excluding legal holidays, from 8:30 a.m. to 4:00 p.m. All documents may be viewed in the OPP Docket room or viewed and/or downloaded via the Internet at http://www.regulations.gov. The Agency's documents in support of this RED include the following:

1. Dole, T. Allethrins: Revised Occupational and Residential Exposure Assessment and Recommendations for the Reregistration Eligibility Decision (RED). June 27, 2007.

2. Farwell, K. Allethrins: Revised HED Chapter of Reregistration Eligibility Decision Document (RED) for Bioallethrin, Esbiol, Esiothrin, and Pynamin Forte and Section 3 Registration Action for Use in Food Handling Establishments: Esbiothrin and Esbiol. June 27, 2007.

3. Panger, M. Response to Comments (Phase 3) and Revised Environmental Fate and Ecological Risk Assessment in Support of the Reregistration of the Allethrins. April 4, 2007.

4. Panger, M. Summary of the Discussion Between EFED and SRRD on the Exposure and Potential Risk to Non-Target Organisms from Allethrins. June 28, 2007.

5. Lloyd, M. Allethrins: Addendum to the Revised Occupational and Residential Exposure Assessment for the Reregistration Eligibility Decision (RED). February 17, 2009.

Appendix D. Bibliography

In addition to the studies listed in Appendix B, this bibliography contains additional citations considered to be part of the database supporting the reregistration decision for Allethrins.

MRID #	Citation
14627	Davis, D.L.; Rich, G.J.; Nelson, C.R.; et al. (1974) Orthene Systemic Spray. (Unpublished study received Jun 11, 1975 under 239-2439; prepared in cooperation with Purdue Univ., Entomology Dept. and Univ. of Wisconsin, submitted by Chevron Chemical Co., Richmond, Calif.; CDL:114131-D)
15270	Burden, G.S. (1974) Repellency of Selected Insecticides to Blattella germanica. (Unpublished study received Apr 4, 1978 under 239-EX-89; prepared by U.S. Agricultural Research Service, Insects Affecting Man Research Laboratory, submitted by Chevron Chemical Co., Richmond, Calif.; CDL:233844-Q)
26597	Gerberg, E.J. (1979) Field Tests of TL-2022 and TL-2072 against the Yellow Jacket Vespasp. and the Bald-Faced Hornet Vespula maculata. (Unpublished study received Dec 18, 1979 under 1021-1423; prepared by Insect Control & Research, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, Minn.; CDL: 241530-A)
26820	McLaughlin Gormley King Company (19??) Multicide(R) Intermediate 2087. (Unpublished study received Dec 13, 1979 under 1021-1422; CDL:241519-A)
26821	Mitchell, K.; Schley, G.; Ingersoll, A.; et al. (1977) Summarization of Efficacy Reports To Support Claims on a John Doe Label from Intermediate 2078. (Unpublished study received Dec 13, 1979 under 1021-1422; prepared in cooperation with Warf Institute, Inc. and Environmental Consultants, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, Minn.; CDL:241519-B)
27513	WARF Institute, Incorporated (1972) Report: WARF Institute No. 2080192-01970. (Unpublished study received Mar 2, 1973 under 1021-1242; submitted by McLaughlin Gormley King Co., Minne-apolis, Minn.; CDL:008465-A)
27514	Pauley, R.W.; Goetz, W. (1972) Report: WARF Institute No. 2080192- 97 I. (Unpublished study received Mar 2, 1973 under 1021-1242; prepared by WARF Institute, Inc., submitted by McLaughlin Gorm- ley King Co., Minneapolis, Minn.; CDL:008465-B)
27545	Mauck, B.; Olson, L.E. (1972) Highlights. (Unpublished study received Dec 13, 1979 under 1021-1422; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:241520-A)
27546	Raltech Scientific Services, Incorporated (1979) Aquatic Invertebrate Toxicity Study--Daphnia: RT No. 8084240. (Unpublished study received Dec 13, 1979 under 1021-1422; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:241520-B)
27547	Beavers, J.B.; Fink, R.; Brown, R. (1978) Final Report: Eight-Day Dietary LC50--Bobwhite Quail: Project No. 163-102. (Unpublished study received Dec 13, 1979 under 1021-1422; prepared by Wildlife International, Ltd. in cooperation with Washington College, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:241520-C)
27548	Beavers, J.B.; Fink, R.; Brown, R. (1978) Final Report: Eight-Day Dietary LC50--Mallard Duck: Project No. 163-104. (Unpublished study received Dec 13, 1979 under 1021-1422; prepared by Wild-life International, Ltd. in cooperation with Washington College, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:241520-D)

MRID #	Citation
30842	Haus, J.; Guzman, B. (1980) Pramex/Bioallethrin Concentrate 10-10: Physical and Chemical Properties. (Unpublished study including assay report nos. P-1474 and P-1514, received Jun 12, 1980 under 432-584; submitted by Penick Corp., Lyndhurst, N.J.; CDL: 242657-A)
30843	Penick Corporation (19??) Technical Bulletin: Formulation Guide. (Unpublished study received Jun 12, 1980 under 432-584; CDL: 242658-A)
30844	Penick Corporation (1979) ?Chemical Analysis of Pramex(R)I/Bio- allethrin Concentrate 10-10|. (Unpublished study received Jun 12, 1980 under 432-584; prepared in cooperation with Witco Chemical Corp. and others; CDL:242658-B)
30845	Penick Corporation (19??) Determination of 10.0% Pramex(R) and 10.0% Bioallethrin Concentrate for Aqueous Pressurized Sprays. Undated method. (Unpublished study received Jun 12, 1980 under 432-584; CDL:242658-C)
30846	Levenstein, I. (1980) To Determine the Oral LDI50^in Fasted Rats of the Test Material As Submitted: Assay No. 02778. (Unpublished study received Jun 12, 1980 under 432-584; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242659-C)
30847	Levenstein, I. (1980) Dermal Irritation Study on Rabbits|: Assay No. 02779. (Unpublished study received Jun 12, 1980 under 432- 584; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242659-D)
30848	Levenstein, I. (1980) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 02781. (Unpublished study received Jun 12, 1980 under 432- 584; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242659-E)
30849	Penick Corporation (19??) Pramex/Bioallethrin Aqueous Pressurized Spray (0.2% + 0.2%): Product Identity. (Unpublished study received Jun 12, 1980 under 432-585; CDL:242653-A)
30850	Penick Corporation (1975) Flame Projection Test. (Unpublished study received Jun 12, 1980 under 432-585, CDL:242653-B)
30851	Guzman, B. (1980) (Storage Stability Study of Pramex(R) (Permethrin)/Bioallethrin 0.2-0.2%): Assay No. P-1477. (Unpublished study including assay no. P-1516, received Jun 12, 1980 under 432-585; submitted by Penick Corp., Lyndhurst, N.J.; CDL: 242534-C)
30852	Penick Corporation (1979?) Pramex(R)I/Bioallethrin(R) Aqueous Pressurized Spray (0.2% + 0.2%): Manufacturing Process. (Unpublished study received Jun 12, 1980 under 432-585; prepared in cooperation with Phillips Petroleum Co.; CDL:242654-A)
30853	Penick Corporation (19??) Determination of 0.20% Bioallethrin and 0.20% Pramex(R)I(Permethrin) in Aqueous Pressurized Cans. Un- dated method. (Unpublished study received Jun 12, 1980 under 432-585; CDL:242654-B)
30854	Levenstein, I. (1980) ?Toxicity Study on Rabbits|: Assay No. 02790. (Unpublished study received Jun 12, 1980 under 432-585; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242656-B)
30855	Levenstein, I. (1980) ?Toxicity Study on Rabbits|: Assay No. 02791. (Unpublished study received Jun 12, 1980 under 432-585; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242656-C)
30856	Levenstein, I. (1980) To Determine If the Test Material Produces Any Irritation when Instilled into Rabbits' Eyes: Assay No. 02793. (Unpublished study received Jun 12, 1980 under 432- 585; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242656-D)
30857	Levenstein, I. (1980) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method Described: Assay No. 02792. (Unpublished study received Jun 12, 1980 under 432-585; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242656-E)

MRID #	Citation
30858	McCarter, M.S. (1980) Pramex/Bioallethrin Aqueous Pressurized Spray (0.2% + 0.2%): General Information. (Unpublished study received Jun 12, 1980 under 432-585; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242655-A)
30859	Levenstein, I. (1980) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method Described: Assay No. 02780. (Unpublished study received Jun 12, 1980 under 432-584; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242659-F)
31368	Rausina, G. (1974) Report to McLaughlin Gormley King Company: Four- Day Static Fish Toxicity Studies with X-2840-74 in Rainbow Trout and Bluegills: IBT No. 621-05281. (Unpublished study received Dec 17, 1975 under 1021-88; prepared by Industrial Bio-Test Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-M)
31369	Fletcher, D. (1974) Report to McLaughlin Gormley King Company: 8- Day Dietary LC50 Study with X-2840-74 in Mallard Ducklings: IBT No. 651-05280. (Unpublished study received Dec 17, 1975 under 1021-88; prepared by Industrial Bio-Test Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-N)
31370	Kretchmar, B. (1973) Report to McLaughlin Gormley King Company: Acute Oral Toxicity Studies with Three Samples in Albino Rats: IBT No. 601-02786. (Unpublished study received Dec 17, 1975 under 1021-88; prepared by Industrial Bio-Test Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-O)
31375	Ingle, L. (1971) Oral and Dermal Toxicity of TL-192 and TL-193. (Unpublished study including letter dated May 25, 1971 from G.J. Baker to L. Ingle, received Dec 17, 1975 under 1021-88; prepared by Univ. of Illinois, Dept. of Zoology, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-T)
31376	Ingle, L. (1971) Mist Chamber Tests of Aerosols. (Unpublished study received Dec 17, 1975 under 1021-88; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-U)
31377	Taylor, R.E. (1973) Acute Oral Toxicity (LD50). (Unpublished study including letter dated Feb 8, 1973 from B. Oxley to Griffin J. Baker, received Dec 17, 1975 under 1021-88; prepared by Harris Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-W)
31378	Taylor, R.E. (1973) Acute Dermal Toxicity Test. (Unpublished study received Dec 17, 1975 under 1021-88; prepared by Harris Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221996-X)
31668	McCarter, M.S.; Calsetta, D.R. (1980) SBP-1382(R)I/Bioallethrin (0 .20%+ 0.075%) Aqueous Pressurized Spray for Flying Insects. (Unpublished study received Apr 21, 1980 under 432-578; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242280-A)
31926	McLaughlin, Gormley, King Company (1980) Contact Spray Test. (Un- published study received Apr 23, 1980 under 1021-1471; CDL: 242342-B)
31927	McLaughlin, Gormley, King Company (1979) Primary Space Spray Test. (Unpublished study received Apr 23, 1980 under 1021-1471; CDL: 242342-C)
31928	McLaughlin, Gormley, King Company (1980) Linking Space Spray Test: Other Allethrins. (Unpublished study received Apr 23, 1980 under 1021-1417; CDL:242342-D)
31929	McLaughlin, Gormley, King Company (19??) Allethrin Degradation Studies. (Unpublished study received Apr 23, 1980 under 1021- 1417; CDL:242342-E)
31930	McLaughlin, Gormley, King Company (19??) Residue Analysis of d-trans Allethrin, MGK-264, and Piperonyl butoxide in Candy, Butter, Potatoes, Lemon Cream Pie, Bread and Meat. Undated method. (Unpublished study received Apr 23, 1980 under 1021- 1417; CDL:242342-F)
31931	Kassera, D.C. (1980) Residue Study. (Unpublished study received Apr 23, 1980 under 1021-1417; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242342-G)

MRID #	Citation
32132	Schley, G.; Childs, J.; Mitchell, K. (1980) Residual Efficacy--Ger- man Cockroaches: MGK File No. C-1276-80. (Unpublished study received Mar 19, 1980 under 464-448; prepared by McLaughlin, Gormley, King Co., submitted by Dow Chemical U.S.A., Midland, Mich.; CDL:242383-A)
32477	Schley, G.; Childs, J.; Mitchell, K. (1980) Residual Efficacy-- House Flies: MGK File No. E-2206-80. (Unpublished study received Mar 19, 1980 under 464-448; prepared by McLaughlin, Gormley, King Co., submitted by Dow Chemical U.S.A., Midland, Mich.; CDL:242364-A)
32520	Penick Corporation (1977) Amendment--EPA Reg. No. 432-536. (Unpublished study received Apr 24, 1980 under DE 80/5; submitted by Delaware, Dept. of Agriculture, Div. of Production and Promo- tion for Penick Corp., Lyndhurst, N.J.; CDL:242353-K)
32592	McCarter, M.S. (1979) SBP-1382(R)I/Bioallethrin (0.20% + 0.10%) Aqueous Pressurized Spray for Flying Insects: Efficacy. (Unpublished study received Apr 17, 1980 under 432-575; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242735-A)
34076	Cronin, D.M.; Tuttle, T.E.; Brower, D.O. (1980) Summary of Results: Insecticide Evaluation: Project No. A-5578. (Unpublished study received Jun 19, 1980 under 4822-162; submitted by S.C. Johnson and Sons, Inc., Racine, Wis.; CDL:242686-A)
35700	McLaughlin, Gormley, King Company (19??) Code Sheet: TL-1998: (Chemical Composition). (Unpublished study received Jan 10, 1980 under 1021-1427; CDL: 242616-A)
35701	Gabriel, K.L. (1979) Guinea Pig Contact Dermal Irritation/Sensitization: TL-1998. (Unpublished study received Jan 10, 1980 under 1021- 1427; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242616-B)
35702	Gabriel, K.L. (1979) Acute Dermal Toxicity--Rabbits: TL-1998. (Unpublished study including letter dated Mar 12, 1979 from A. Affrime to Frederick J. Preiss, received Jan 10, 1980 under 1021-1427; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242616-C)
35703	Gabriel, K.L. (1979) Primary Skin Irritation Study--Rabbits: TL-1998. (Unpublished study received Jan 10, 1980 under 1021-1427; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242616-D)
35704	Gabriel, K.L. (1979) Primary Eye Irritation Study--Rabbits: TL-1998. (Unpublished study received Jan 10, 1980 under 1021-1427; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242616-F)
35705	McLaughlin, Gormley, King Company (19??) Code Sheet: TL-1999. (Unpublished study received Jan 10, 1980 under 1021-1427; CDL: 242613-A)
35706	Gabriel, K.L. (1979) Acute Inhalation Toxicity--Rats. (Unpublished study received Jan 10, 1980 under 1021-1427; prepared by Bio- search, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242613-B)
35707	Schley, G.; Childs, J. (1979) Aerosol Efficacy--Cockroaches: MGK File No. C-1273-79. (Unpublished study received Jan 10, 1980 under 1021-1427; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242614-A)
35708	Schley, G.; Childs, J. (1979) Aerosol Efficacy--House Flies: TL-2121, TL-2122, TL-2123, TL-2067, Raid Professional Strength and OTA-11: MGK File No. A-1446-79. (Unpublished study received Jan 10, 1980 under 1021-1427; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242615-A)
35770	Penick Corporation (19??) Pramex/Bioallethrin Aqueous Pressurized Spray (0.15% + 0.25%): Acute Toxicology Summary. Summary of studies 242582-B through 242582-E. (Unpublished study received Jun 4, 1980 under 432-582; CDL:242582-A)
35906	Gabriel, K.L. (1979) Acute Oral Toxicity--Rats. (Unpublished study received Jan 10, 1980 under 1021-1427; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242616-E)

MRID #	Citation
36605	Preiss, F.; Schley, G.; Childs, J.; et al. (1980) Special Efficacy Test--ULV Application: MGK File No. E-2244-80. (Unpublished study received Jul 9, 1980 under 1021-1453; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242792-A)
39457	McLaughlin, Gormley, King Company (1980) Laboratory Report: F-2237 Concentrate & Aerosol. (Unpublished study received Jun 17, 1980 under 1021-1452; CDL:242888-A)
39458	Schley, G.; Childs, J.; Mitchell, K.; et al. (1980) Aerosol Efficacy on Flies, Fleas and Roaches: MKG File No. A-1457-80. (Unpublished study including MGK File nos. #-2216-80 and C-1282- 80, received Jun 17, 1980 under 1021-1452; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242889-A)
39459	Preiss, F.J. (1980) Summary of Results of Acute Toxicity Studies: Project No. 80-1951A. Summary of studies 242890-B through 242890-E. (Unpublished study received Jun 17, 1980 under 1021-1453; prepared in cooperation with Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242890-A)
39460	Gabriel, K.L. (1980) Acute Oral Toxicity LDI50--Rats: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1453; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242890-B)
39461	Gabriel, K.L. (1980) Acute Dermal Toxicity LDI50--Rabbits: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1453; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242890-C)
39462	Gabriel, K.L. (1980) Primary Eye Irritation--Rabbits: Project NO. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1453; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242890-D)
39463	Gabriel, K.L. (1980) Primary Skin Irritation--Rabbits: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1453; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242890-E)
39464	Preiss, F.J. (1980) Summary of Results of Acute Toxicity Studies: Project No. 80-1951A. Summary of studies 242891-B through 242891-G. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared in cooperation with Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-A)
39465	Gabriel, K.L. (1980) Acute Oral Toxicity LDI50^--Rats: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-B)
39466	Gabriel, K.L. (1980) Acute Dermal Toxicity LDI50^-Rabbits: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-C)
39467	Gabriel, K.L. (1980) Primary Eye Irritation--Rabbits: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-D)
39468	Gabriel, K.L. (1980) Primary Skin Irritation--Rabbits: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-E)
39469	Gabriel, K.L. (1980) Acute Inhalation Toxicity--Rats: Project No. 80-1951A. (Unpublished study received Jun 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-F)
39470	Gabriel, K.L. (1980) Guinea Pig Contact Dermal Irritation/Sensitization. (Unpublished study received Jan 17, 1980 under 1021-1452; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242891-G)

MRID #	Citation
43030	Schley, G.; Mitchell, K.; Child, J. (1980) Residual Efficacy--Oriental Cockroaches: MGK File No. C-1297-80. (Unpublished study received Sep 4, 1980 under 1021-1457; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243152-A)
43031	Schley, G.; Mitchell, K.; Child, J. (1980) Residual Efficacy--American Cockroaches: MGK File No. C-1298-80. (Unpublished study received Sep 4, 1980 under 1021-1457; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243151-A)
43032	Schley, G.; Mitchell, K.; Child, J. (1980) Residual Efficacy--House Flies: MGK File No. E-2246-80. (Unpublished study received Sep 4, 1980 under 1021-1457; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243150-A)
44293	Schley, G.; Mitchell, K.; Child, J. (1980) Report: Residual Efficacy--German Cockroaches: MGK File No. C-1296-80. (Unpublished study received Sep 4, 1980 under 1021-1457; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243153-A)
44821	Schley, G.; Childs, J.; Preiss, F.; et al. (1980) ?Efficacy of F-2079 on Insects|: MGK File No. A-1458-80. (Unpublished study including MGK file nos. C-1283-80, E-2219-80, E-2217-80 and E- 2218-80, received Mar 26, 1980 under 1021-1403; submitted by Mc- Laughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242971-A)
45719	Mitchell, K.; Schley, G. (1979) Total Release Aerosol--House Flies: MGK File No. A-1432-79. (Unpublished study received Feb 19, 1980 under 11715-96; prepared by McLaughlin, Gormley, King Co., submitted by Speer Products, Inc., Memphis, Tenn.; CDL:243113-A)
45720	Mitchell, K.; Schley, G. (1979) Total Release Aerosol--German Cock- roaches: MGK File No. C-1254-79. (Unpublished study received Feb 19, 1980 under 11715-96; prepared by McLaughlin, Gormley, King Co., submitted by Speer Products, Inc., Memphis, Tenn.; CDL:243113-B)
46579	Schley, G.; Childs, J. (1980) Residual Efficacy--Stored Product Pests: MGK File No. E-2243-80. (Unpublished study received Aug 7, 1980 under 1021-1439; submitted by Mclaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243441-A)
46580	Schley, G.; Childs, J. (1980) Residual Efficacy--German Cock- roaches: MGK File No. C-1293-80. (Unpublished study received Aug 7, 1980 under 1021-1439; submitted by Mclaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243440-A)
47080	Fletcher, D. (1973) Report to McLaughlin Gormley King Company: 8-Day Dietary LCI50^ Study with S-Bioallethrin in Bobwhite Quail: IBT No. 651-02851. (Unpublished study received Apr 11, 1973 under unknown amdin. no.; prepared by Industrial Bio-Test Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:133033-A)
47081	Fletcher, D. (1973) Report to McLaughlin Gormley King Company: 8-Day Dietary LCI50^ Study with S-Bioallethrin in Mallard Ducks: IBT No. 651-02852. (Unpublished study received Apr 11, 1973 under unknown admin. no.; prepared by Industrial Bio-Test Lab- oratories, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, Minn.; CDL:133034-A)
47188	Penick Corporation (1969) Specifications of SBP-1382, Bioallethrin and Other Chemicals|. (Reports by various sources; unpublished study received Oct 30, 1970 under 432-482; CDL:133073-A)
47189	S.B. Penick & Company (19??) Methods, Stability Data and Flame Test for Bioallethrin and SBP 1382. Includes undated method entitled: Method of analysis of Bioallethrin and method en- titled: Method of analysis of SBP 1382. (Unpublished study received Oct 30, 1970 under 432-482; CDL:133073-B)
47190	Penick Corporation (19??) Aqueous Pressurized Sprays: Flame Projection Test: CSMA Flammability Test Methods for Aerosol Products. (Unpublished study received Oct 30, 1970 under 432-482; CDL: 133073-C)

MRID #	Citation
47191	Levenstein, I. (1970) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes As Described Below: Assay No. 09351. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhust, N.J.; CDL:133073-D)
47192	Levenstein, I. (1970) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits: Assay No. 09352. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Labora- tories, submitted by Penick Corp., Lyndhurst, N.J.; CDL: 133073-E)
47193	Littlefield, N.A. (1970) Final Report: Acute Inhalation Exposure-- Rats: Project No. 347-123. (Unpublished study received Oct 30, 1970 under 432-482; prepared by TRW, Inc., submitted by Penick Corp., Lyndhurst, N.J.; CDL:133073-F)
47194	Wolven, A.M.; Levenstein, I. (1970) To Determine the Oral LDI50^ in Fasted Rats of the Test Material As Submitted: Assay No. 09339. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:133073-G)
47195	Wolven, A.M.; Levenstein, I. (1970) Toxicity of Bioallethrin to Guinea Pigs|: Assay No. 09353. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Laboratories, sub-mitted by Penick Corp., Lyndhurst, N.J.; CDL:133073-H)
47404	McLaughlin, Gormley, King Company (1972) Report: Patio Fogger Test--Aerosol. (Unpublished study received Sep 28, 1972 under 1021-1228; CDL:225736-A)
47405	Goetz, W. (1970) Report: WARF Institute No. 0120428. (Unpublished study received Jan 13, 1971 under 1021-1154; prepared by WARF Institute, Inc., submitted by McLaughlin, Gormley, King Co., Kansas City, Kans.; CDL:225735-A)
48848	McLaughlin, Gormley, King Company (1972) Patio Fogger Test--Aerosol: MGK File No. A-1008-72I. (Unpublished study received Sep 28, 1972 under 1021-1229; CDL:225737-A)
48855	Carpenter, C.P.; Weil, C.S.; Pozzani, U.C.; et al. (19??) Comparative acute and subacute toxicities of Allethrin and Pyrethrins. Industrial Hygiene and Occupational Medicine ? :420-432. (Also In unpublished submission received Feb 28, 1972 under 3282-28; submitted by D-Con Co., Inc., Montvale, N.J.; CDL:225677-B)
48926	Mitchell, K. (1980) Special Efficacy Test--Insect Repellent Barrier--German Cockroaches: MGK File No. D-1116-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243589-A)
48927	Schley, G.; Mitchell, K. (1980) Special Efficacy Test--Insect Repellent Barrier--Ants: MGK File No. E-2241-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 243587-A)
48928	Schley, G.; Mitchell, K.; Childs, J. (1980) Special Efficacy-- Sawtoothed Grain Beetle: MGK File No. E-2228-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243588-A)
49033	WARF Institute, Incorporated (1971) Report: WARF Institute No. 0042459-61. (Compilation; unpublished study including WARF Institute no. 109539-42, received Oct 26, 1971 under unknown admin. no.; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:228454-A)
49063	Schley, G.; Mitchell, K.; Childs, J. (1980) Special Efficacy--Rice Weevil: MGK File No. E-2230-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243594-A)
49064	Schley, G.; Mitchell, K.; Childs, J. (1980) Special Efficacy-- Confused Flour Beetles: MGK File No. E-2238-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243593-A)

MRID #	Citation
49065	Schley, G.; Mitchell, K.; Childs, J. (1980) Special Efficacy-- Ticks: MGK File No. E-2231-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243592-A)
49066	Schley, G.; Mitchell, K.; Childs, J. (1980) Special Efficacy--Ants: MGK File No. E-2229-80. (Unpublished study received Jul 22, 1980 under 1021-1455; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243590-A)
49653	McLaughlin, Gormley, King Company (1972) Efficacy Study: Aerosol. (Compilation; unpublished study received Oct 12, 1972 under unknown admin. no.; CDL:132788-A)
49839	S.C. Johnson and Sons, Incorporated (1980) Summary of Results: CSMA Aerosol Tests. (Compilation; unpublished study received Jun 19, 1980 under 4822-162; CDL:243580-A)
51490	Goetz, W. (1975) Letter sent to George K. Schumaker dated Aug 28, 1975 Direct spray tests against hornets and wasps: WARF No. 5072687. (Unpublished study including WARF no. 5072687I and 5072687II, received Nov 17, 1975 under 432-542; submitted by Penick Corp., Lyndhurst, N.J.; CDL:222118-A)
52400	Penick Corporation (19??) Technical Bulletin: Formulation Guide. (Unpublished study received Jun 4, 1980 under 432-581; CDL: 242592-A)
52401	Haus, J. (1980) Pramex/Bioallethrin Concentrate 7.5-12.5. (Unpub- lished study received Jun 4, 1980 under 432-581; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242592-B)
52402	Guzman, B. (1980) ?Chemical Data for Pramex/Bioallethrin|: Assay Report No. P-1475. (Unpublished study including assay report no. P-1513, received Jun 4, 1980 under 432-581; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242592-C)
52403	Penick Corporation (1979) ?Chemical Data for Pramex/Bioallethrin|. (Unpublished study received Jun 4, 1980 under 432-581; prepared in cooperation with Witco Chemical Corp. and others; CDL: 242593-B)
52404	Penick Corporation (19??) Determinatin of 7.5% Pramex^(R)I and 12.5% Bioallethrin Concentrate for Aqueous Pressurized Sprays. Undated method. (Unpublished study received Jun 4, 1980 under 432-581; CDL:242593-C)
52405	Penick Corporation (19??) Pramex/Bioallethrin Aqueous Pressurized Spray (0.15% + 0.25%). (Unpublished study received Jun 4, 1980 under 432-582; CDL:242584-A)
52406	Haus, J. (1975) Flame Projection Test: CSMA Flammability Test Method for Aerosol Products. Undated method. (Unpublished study received Jun 4, 1980 under 432-582; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242584-B)
52407	Guzman, B. (1980) Chemical Data for Pramex/Bioalletherin: Assay Report No. P-1478. (Unpublished study including assay report no. P-1515, received Jun 4, 1980 under 432-582; submitted by Penick Corp., Lyndhurst, N.J.; CDL:242584-C)
52408	Penick Corporation (1980) Chemical Data for Pramex/Bioallethrin. (Unpublished study received Jun 4, 1980 under 432-582; prepared in cooperation with Phillips Petroleum Co.; CDL:242585-A)
52409	Penick Corporation (1979) Determination of 0.25% Bioallethrin and 0.15% Pramex(R)I (Permethrin) in Aqueous Pressurized Cans. Un- dated method. (Unpublished study received Jun 4, 1980 under 432-582; CDL:242585-B)
52410	McCarter, M.S. (1980) Pramex/Bioallethrin Aqueous Pressurized Spray (0.15% + 0.25%). (Unpublished study received Jun 4, 1980 under 432-582; submitted by Penick Corp., Lyndhurst, N.J.; CDL: 242583-A)
52411	Penick Corporation (1980) Pramex/Bioallethrin Concentrate 7.5-12.5: Acute Toxicology Summary. Summary of studies 242591-C through 242591-F. (Unpublished study received Jun 4, 1980 under 432- 581; CDL:242591-B)

MRID #	Citation
52412	Levenstein, I. (1980) Toxicology Data for Pramex/Bioallethrin on Rats|: Assay No. 02782. (Unpublished study received Jun 4, 1980 under 432-581; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242591-C)
52413	Levenstein, I. (1980) Toxicology Data for Pramex/Bioallethrin on Rabbits|: Assay No. 02783. (Unpublished study received Jun 4, 1980 under 432-581; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242591-D)
52414	Levenstein, I. (1980) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method Described: Assay No. 02784. (Unpublished study received Jun 4, 1980 under 432-581; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242591-E)
52415	Levenstein, I. (1980) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 02785. (Unpublished study received Jun 4, 1980 under 432- 581; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242591-F)
52416	Levenstein, I. (1980) Toxicology Data for Pramex/Bioallethrin on Rats|: Assay No. 02786. (Unpublished study received Jun 4, 1980 under 432-582; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, N.J.; CDL:242582-B)
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63771	Gabriel, K.L. (1980) Acute Dermal Toxicity LDI50^--Rabbits: Project No. 80-2084A. (Unpublished study received Nov 14, 1980 under 1021-1463; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243724-C)
63772	Gabriel, K.L. (1980) Primary Skin Irritation--Rabbits: Project No. 80-2084A. (Unpublished study received Nov 14, 1980 under 1021-1463; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243724-D)
63773	Gabriel, K.L. (1980) Primary Eye Irritation--Rabbits: Project No. 80-2084-A. (Unpublished study received Nov 14, 1980 under 1021-1463; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:243724-E)
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72507	Mitchell, K. (1980) Pressurized Spray Efficacy--Cat Fleas: MGK File No. E-2306-80. (Unpublished study received Jan 14, 1981 under 1021-1422; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244982-A)
72508	Schley, G.; Mitchell, K. (1981) Pressurized Spray Efficacy--Centipedes: MGK File No. E-2307-81. (Unpublished study received Jan 14, 1981 under 1021-1422; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244981-A)
72511	WARF Institute, Incorporated (1974) Report: Acute Oral LD50, Eye Irritation, Skin Irritation, Acute Inhalation: (Raid Flying Insect Killer Formula III): WARF # 4080073. (Unpublished study received Apr 15, 1981 under 4822-141, submitted by S.C. Johnson and Sons, Inc., Racine, Wis.; CDL:244998-A)
73651	WARF Institute, Incorporated (1976) Report: WARF Institute No. 5071443. (Unpublished study received Mar 17, 1976 under 432-536; submitted by Penick Corp., Lyndhurst, N.J.; CDL: 225130-A)
73658	Gabriel, K.L. (1976) Acute Aerosol Inhalation Toxicity Study: TL 1539. (Unpublished study received Jan 19, 1977 under 1021-1026; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:231946-A)
73659	Gabriel, K.L. (1976) Acute Oral Toxicity--Rats: X-3154-76. (Unpublished study received Jan 19, 1977 under 1021-1026; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:231946-D)
74558	McLaughlin Gormley King Company (1979) Report: F-22071 and .5% Diazinon: MGK File No. E-2204-79. (Compilation; unpublished study, including MGK file no. C-127-79, received Dec 2, 1980 under 1021-1466; CDL:244252-A)

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74559	Biosearch, Incorporated (1979) Summary of Results of Acute Toxicity Studies: Project No. 79-1773A. Summary of studies 244252-C through 244252-I. (Unpublished study received Dec 2, 1980 under 1021-1466; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-B)
74560	Gabriel, K.L. (1979) Acute Oral Toxicity--LDI50^--Rats: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-C)
74561	Gabriel, K.L. (1979) Acute Dermal Toxicity--LDI50^--Rabbits: Project No. 79.1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by Mc-Laughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-D)
74562	Gabriel, K.L. (1979) Primary Skin Irritation Study--Rabbits: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by Mc- Laughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-E)
74563	Gabriel, K.L. (1979) Acute Inhalation Toxicity--Rats: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-F)
74564	Gabriel, K.L. (1979) Primary Eye Irritation Study--Rabbits: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-G)
74565	Gabriel, K.L. (1979) Guinea Pig Contact Dermal Irritation/Sensitization: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 244252-H)
74566	Gabriel, K.L. (1979) Primary Eye Irritation Study--Rabbits: Project No. 79-1773A. (Unpublished study received Dec 2, 1980 under 1021-1466; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:244252-I)
75496	Horiba, M. (1973) Mosquito Coil Containing Pynamin Forte(R) as an Active Ingredient: KS-00-0003. Includes method dated Nov 1973 entitled: Gas-liquid chromatographic determination of content of Pynamin-Forte(R) in mosquito coils. (Unpublished study received Sep 29, 1980 under 10308-3; prepared by Sumitomo Chemical Co., Ltd., Japan, submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:243373-A)
75497	Sumitomo Chemical Company, Limited (1973) (Test Results on the Insecticidal Efficacy of Mosquito Coil Containing Pynamin-Forte as an Active Ingredient): KE-30-0014. (Compilation; unpublished study, including KE-30-0015, KE-30-0016, KE-41-0017..., received Sep 29, 1980 under 10308-3; CDL:243373-B)
75498	Miyamoto, J.; Kadota, T. (1974) Acute Oral Toxicity of Mosquito Coils Containing Pynamin Forte(R) in Rats: KT-40-0029. (Unpublished study received Sep 29, 1980 under 10308-3; prepared by Sumitomo Chemical Co., Ltd., Japan, submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:243373-C)
75499	Miyamoto, J.; Kadota, T. (1973) Acute Oral Toxicity of Mosquito Coils Containing Pynamin Forte(R) in Mice: KT-30-0030. (Unpublished study received Sep 29, 1980 under 10308-3; prepared by Sumitomo Chemical Co., Ltd., Japan, submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:243373-D)
75500	Kadota, T.; Kohda, H.; Miyamota, J. (1974) Subacute Inhalation Toxicity of Mosquito Coils Containing 0.3% Pynamin Forte(R) in Mice and Rats: KT-40-0031. (Unpublished study received Sep 29, 1980 under 10308-3; prepared by Sumitomo Chemical Co., Ltd., Japan, submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:243373-E)
75983	McLaughlin Gormley King Company (1978) McLaughlin Gormley King Multicide(R) Products Containing Sumithrin(R), Neo-pynamin(R) and Pynamin Forte(R) Pyrethroids. Interim technical bull., Mar 1978. (Also In unpublished submission received Apr 21, 1978 under 1021-1356; CDL:233505-A)

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77145	Biosearch, Incorporated (1981) Summary of Results of Acute Toxicity Studies: Project No. 81-2354A. Summary of studies 245439-B through 245439-E. (Unpublished study received Jun 15, 1981 under 1021-1492; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-A)
77146	Gabriel, K.L. (1981) Acute Oral Toxicity LDI50^--Rats: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-B)
77147	Gabriel, K.L. (1981) Acute Dermal Toxicity LDI50^--Rabbits: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-C)
77148	Gabriel, K.L. (1981) Primary Skin Irritation--Rabbits: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-D)
77149	Gabriel, K.L. (1981) Primary Eye Irritation--Rabbits: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-E)
77150	Biosearch, Incorporated (1981) Summary of Results of Acute Toxicity Studies: Project No. 81-2354A. Summary of studies 245439-G and 245439-H. (Unpublished study received Jun 15, 1981 under 1021- 1492; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-F)
77151	Gabriel, K.L. (1981) Guinea Pig Contact Dermal Irritation/Sensitization--Buehler Method: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Bio- search, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-G)
77152	Gabriel, K.L. (1981) Acute Inhalation Toxicity--Rats: Project No. 81-2354A. (Unpublished study received Jun 15, 1981 under 1021-1492; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:245439-H)
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77311	Gabriel, K.L. (1979) Primary Skin Irritation Study--Rabbits: Project No. 78-1538A. (Unpublished study received Nov 12, 1980 under 11525-40; prepared by Biosearch, Inc., submitted by Peterson Puritan, Inc., Danville, Ill.; CDL:243898-C)
78624	Knickerbocker, M.; Re, T.A. (1979) Teratologic Evaluation of D- trans Allethrin in Sprague-Dawley Rats: Laboratory No. 6059. (Unpublished study received May 17, 1979 under 1021-1060; prepared by Food and Drug Research Laboratories, Inc., submitted by Chevron Chemical Co., Richmond, Calif.; CDL:238638-A)
78814	S.C. Johnson & Son, Incorporated (1981) Raid, Formula 5249 Multi- purpose Bug Killer: Efficacy Data. (Unpublished study received Jun 16, 1981 under 4822-183; CDL:245553-A)
81080	Malone, J.C.; Chesher, B.C. (1970) Toxicity of Bioallethrin/NRDC 107 Crawling Insect Killer Aerosol Spray to Canaries and Budgerigars: Report Series B No. 211-70. (Unpublished study received Jun 9, 1972 under 279-2914; prepared by Wellcome Foundation, Ltd., submitted by FMC Corp., Philadelphia, Pa.; CDL:002527-D)
83031	Rohm and Haas Company (19??) Nonylphenoxyethanol (NPE) Surfactants. Philadelphia, Pa.: Rohm and Haas. (CS-50 B/ci).
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84046	Vercoe, R.R.; Malone, J.C. (1969) Dermal Irritancy of Pyrethroids and Piperonyl Butoxide to Rabbits: Report Series B No. 47-69. (Unpublished study received Jan 5, 1976 under 1021-24; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 221987-B)
84051	Vercoe, R.R.; Malone, J.C. (1970) Inhalation and Dermal Toxicity of Bioallethrin/Piperonyl Butoxide and Pybathrin Aerosol Formulations to Canaries and Budgerigars: Report Series B No. 82-70. (Unpublished study received Jan 5, 1976 under 1021-24; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 221987-L)
84070	Verschoyle, R.D.; Barnes, J.M. (1972) Toxicity of natural and synthetic pyrethrins to rats. Pesticide Biochemistry and Physiology 2:308-311. (Also In unpublished submission received Jan 5, 1976 under 1021-24; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221987-AO)
84073	Mauck, B.; Oleon, L.E. (1972) Annual Progress Report: 1972. (U.S. Fish and Wildlife Service, Fish-Pesticide Research Unit; unpublished study; CDL:221987-AR)
85473	Vercoe, R.R.; Malone, J.C. (1969) Dermal Irritancy of Pyrethroids and Piperonyl Butoxide to Rabbits: Report Series B No. 47-69. (Unpublished study received Dec 29, 1975 under 1021-974; pre- pared by Wellcome Foundation, Ltd., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221983-I)
85478	Ingle, L. (1971) Oral and Dermal Toxicity of TL-192 and TL-193. (Unpublished study, including letter dated May 25, 1971 from G.J. Baker to Les Ingle, received Dec 29, 1975 under 1021-974; prepared by Univ. of Illinois, Dept. of Zoology, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 221983-AE)
85479	Ingle, L. (1971) Mist Chamber Tests of Aerosols. (Unpublished study, including letter dated Mar 18, 1966 from L. Ingle to Griff. Baker, received Dec 29, 1975 under 1021-974; prepared by Univ. of Illinois, Dept. of Zoology, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221983-AF)
85480	Taylor, R.E. (1973) Acute Oral Toxicity (LDI50^). (Unpublished study received Dec 29, 1975 under 1021-974; prepared by Harris Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221983-AG)
85481	Taylor, R.E. (1973) Acute Dermal Toxicity Test. (Unpublished study received Dec 29, 1975 under 1021-974; prepared by Harris Laboratories, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221983-AH)
85482	Ingle, L. (1972) Toxicity of Formulations TL-380, TL-381, TL-382, and TL-383. (Unpublished study received Dec 29, 1975 under 1021-974; prepared by Univ. of Illinois, submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:221983-AI)
87578	Biosearch, Incorporated (1981) Summary of Results of Acute Toxicity Studies: Project No. 81-2544A. Summary of studies 246449-B through 246449-E. (Unpublished study received Aug 31, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246449-A)
87579	Gilman, M.R.; Costello, B.A. (1981) Acute Oral Toxicity LDI50^-- Rats: Project No. 81-2544A. (Unpublished study received Aug 31, 1981 under 1021-1486; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL: 246449-B)
87580	Gilman, M.R.; Costello, B.A. (1981) Primary Skin Irritation-- Rabbits: Project No. 81-2544A. (Unpublished study received Aug 31, 1981 under 1021-1486; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246449-C)
87581	Gilman, M.R.; Costello, B.A. (1981) Primary Eye Irritation-- Rabbits: Project No. 81-2544A. (Unpublished study received Aug 31, 1981 under 1021-1486; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246449-D)
87582	Gilman, M.R.; Costello, B.A. (1981) Acute Dermal Toxicity--Rabbits: Project No. 81-2544A. (Unpublished study received Aug 31, 1981 under 1021-1486; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246449-E)

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87583	Mitchell, K.; Childs, J. (1981) Total Release Aerosol--Sowbugs: MGK File No. E-2327-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246450-A)
87584	Mitchell, K.; Childs, J. (1981) Total Release Aerosol--Cat Fleas: MGK File No. E-2322-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246451-A)
87585	Mitchell, K.; Childs, J.; Schley, G. (1981) Total Release Aerosol-- Brown Dog Ticks: MGK File No. E-2328-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246452-A)
87586	Mitchell, K.; Schley, G.; Child, J. (1981) Total Release Aerosol-- German Cockroaches: MGK File No. C-1347-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246453-A)
87587	Mitchell, J.; Childs, J. (1981) Total Release Aerosol: Centipedes: MGK File No. E-2338-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246454-A)
87588	Schley, G.; Mitchell, K. (1981) Total Release Aerosol--Stored Product Pests: MGK File No. E-2319-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246455-A)
87589	Mitchell, K.; Childs, J. (1981) Total Release Aerosol--Crickets: MGK File No. E-2325-81. (Unpublished study received Jun 17, 1981 under 1021-1486; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246456-A)
87641	Penick Corporation (1974) [Chemistry of SBP-1382 and inerts]. Unpublished compilation; 5 p.
87642	Penick Corporation (1973) Specifications for SBP-1382 40% Oil Base Concentrate in Comparison with Other Chemicals|. (Compilation; unpublished study received Jun 21, 1974 under 432-536; CDL:022998-B)
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87646	Penick Corporation (1974) Efficacy of SBP-1382|. (Compilation; unpublished study received Jun 21, 1974 under 432-536; CDL: 022998-F)
87737	Biosearch, Incorporated (1981) Summary of Results of Acute Toxicity Studies: Project No. 80-2299A. Summary of studies 246445-B through 246445-H. (Unpublished study received Apr 27, 1981 under 1021-1480; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-A)
87738	Gabriel, K.L. (1981) Acute Oral Toxicity LDI50^--Rats: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-B)
87739	Gabriel, K.L. (1981) Acute Dermal Toxicity LDI50^--Rabbits: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-C)
87740	Gabriel, K.L. (1981) Primary Skin Irritation--Rabbits: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-D)
87741	Gabriel, K.P. (1981) Primary Eye Irritation--Rabbits: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-E)
87742	Gabriel, K.L. (1981) Primary Skin Irritation--Rabbits: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-F)

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87743	Gabriel, K.L. (1981) Guinea Pig Contact Dermal Irritation/Sensitization--Buehler Method: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Bio- search, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:246445-G)
87744	Gabriel, K.L. (1981) Acute Inhalation Toxicity--Rats: Project No. 80-2299A. (Unpublished study received Apr 27, 1981 under 1021-1480; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL;246445-H)
87980	Pauley, R.W. (1973) Report: WARF Institute No. 3061422-4. (Unpublished study received Jan 21, 1974 under 1021-1297; prepared by WARF Institute, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:024336-A)
88439	Penick Corporation (1971) Efficacy of SBP-1382/Bioallethrin Aqueous Pressurized Spray|. (Compilation; unpublished study received Apr 12, 1974 under 432-482; CDL:022994-A)
88443	Neal, F.C.; Mann, G.; Butler, J.F. (19??) Toxicity Trials of SBP-1382 in Cats and Dogs. Prelim. rept. (Unpublished study received Apr 12, 1974 under 432-482; prepared by Univ. of Florida, Institute of Food and Agricultural Sciences, Dept. of Veterinary Science, submitted by Penick Corp., Lyndhurst, N.J.; CDL:022994-E)
90508	Sumitomo Chemical Company, Limited (19??) Pynamin Forte(R) (d- cis, trans Allethrin: Physical and Chemical Properties). (Unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-A)
90509	Sumitomo Chemical Company, Limited (1972) Quantitative Analysis of Technical Grade Pynamin Forte(R). (Unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-B)
90510	Sumitomo Chemical Company, Limited (19??) Stability of Pynamin Forte. (Unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-C)
90511	Sumitomo Chemical Company, Limited (1938?) (Insecticidal Efficacy of Pynamin Forte). (Compilation; unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-D)
90512	Kadota, T.; et al. (19??) Toxicity of Pynamin Forte: (I) Acute Oral and Subcutaneous Toxicity in Rats. (Unpublished study received Jun 13, 1978 under 10308-3; submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:234587-E)
90513	Sumitomo Chemical Company, Limited (19??) Acute Oral, Subcutaneous and Intraperitoneal Toxicity of Pynamin Forte in Mice. (Unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-F)
90514	Sumitomo Chemical Company, Limited (19??) Toxicity of Pynamin Forte: (III) Acute Oral and Subcutaneous Toxicity in Mice. (Un- published study received Jun 13, 1978 under 10308-3; CDL: 234587-G)
90515	Sumitomo Chemical Company, Limited (19??) Acute Dermal Toxicity of Pynamin Forte and Pynamin. (Unpublished study received Jun 13, 1978 under 10308-3; CDL:234587-H)
90516	Kadota, T. (19??) 90-day Subacute Toxicity Study of Pynamin Forte on Rats. (Unpublished study received Jun 13, 1978 under 10308- 3; submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:234587-I)
90519	Nishimura, M.; Yamauchi, T. (1972) Inhalation Toxicity of Pynamin Forte. (Unpublished study received Jun 13, 1978 under 10308-3; prepared by Tokyo Dental Univ., Japan, submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:234587-L)
90520	Kadota, T.; et al. (19??) Acute Inhalation Toxicity of Pynamin Forte and Pynamin in Mice and Rats. (Unpublished study received Jun 13, 1978 under 10308-3; submitted by Sumitomo Chemical Co., Ltd., Baltimore, Md.; CDL:234587-M)
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94841	McLaughlin, Gormley, King Company (1980) Laboratory Report: (for MGK 264, Esbiothrin and Piperonyl Butoxide by GLC). (Compilation; unpublished study received Dec 15, 1980 under 1021-1471; CDL:246796-A)
94842	McLaughlin, Gormley, King Company (1980) Report: Aerosol Efficacy: Houseflies and Cockroaches|. (Compilation; unpublished study, including MGK file nos. A-1485-80, C-1265-79-II, A-1438-79-II, received Dec 15, 1980 under 1021-1471; CDL:246796-B)
95834	Preiss, F.J. (1980) Letter sent to F.D.R. Gee dated May 6, 1980: Multicide^(R)I Intermediate 2221, John Doe label--professional strength. (Unpublished study received May 12, 1980 under 1021- 1426; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:242596-A)
97429	Biosearch, Incorporated (1981) Summary of Results of Acute Toxicity Studies: Project No. 81-2354A. Summary of studies 247020-B through 247020-E. (Unpublished study received Dec 21, 1981 under 1021-1487; submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:247020-A)
97430	Gabriel, K.L. (1981) Acute Inhalation Toxicity--Rats: Project No. 81-2354A. (Unpublished study received Dec 21, 1981 under 1021-1487; prepared by Biosearch, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:247020-H)
98050	Schley, G.; Childs, J.; Mitchell, K. (1981) Total Release Aerosol Efficacy--Cat Fleas: MGK File No. E-2402-81. (Unpublished study received Mar 29, 1982 under 239-2484; prepared by McLaughlin Gormley King Co., submitted by Chevron Chemical Co., Richmond, Calif.; CDL:247131-A)
99079	McLaughlin, Gormley, King Company (1981) ?Efficacy Studies of Aerosol Insecticides|. (Compilation; unpublished study, includ- ing MGK file nos. E-2351-81, E-2352-81, E-2353-81..., received Jul 29, 1981 under 1021-1496; CDL:246442-A)
100255	McLaughlin, Gormley, King Company (1975) D-trans Allethrin. (Un- published study received Oct 4, 1978 under 1021-24; CDL: 236569-A)
100257	Harris, D.L. (1977) Report: WARF Institute No. 6120164. (Unpub- lished study received Oct 4, 1978 under 1021-24; prepared by WARF Institute, Inc., submitted by McLaughlin, Gormley, King Co., Minneapolis, Minn.; CDL:236569-C)
100258	McLaughlin, Gormley, King Company (1978) ?Efficacy of Black Flag Insecticides on Arbovitae and Other Plants|. (Compilation; un- published study received Oct 4, 1978 under 1021-24; CDL: 236569-D)
103117	McLaughlin, Gormley, King Co. (1981) ?Efficacy of Formulations X-3438-80, X-3441-80 and OTI Tested on Various Insects|. (Com- pilation; unpublished study received Jul 29, 1981 under 1021-1480; CDL:246446-A)
105880	Oxford Chemicals (1969) [Composition of Oxford Super Fog and De- termination of inert ingredient and/or Allethrins in Pesticide Formulations]. Unpublished compilation; 2 p.
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105952	McLaughlin Gormley King Co. (1981) ?Efficacy of Various Insecticide Formulations|. (Compilation; unpublished study received Jul 29, 1981 under 1021-1497; CDL:246444-A)

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105953	McLaughlin Gormley King Co. (1978) ?Efficacy of Various Insecticide Formulations on Flies and Other Insects|. (Compilation; unpub- lished study received Jul 23, 1981 under 1021-1495; CDL: 246458-A)
107241	Hartz Mountain Corp. (1978) ?Evaluation of Insecticidal Aerosol Sprays|. (Compilation; unpublished study received Oct 5, 1978 under 2596-70; CDL:235296-E)
107242	Levenstein, I. (1978) ?Toxicity of 3 Aerosol Cans # 2671 to Rats|: Assay No. 810268. (Unpublished study received Oct 5, 1978 under 2596-69; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235297-A)
107243	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810284. (Unpublished study received Oct 5, 1978 under 2596-69; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235297-B)
107244	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810285. (Unpublished study received Oct 5, 1978 under 2596- 69; prepared by Leberco Laboratories, submitted by Hartz Moun- tain Corp., Harrison, NJ; CDL:235297-C)
107245	Levenstein, I. (1978) ?Toxicity of 1 Bottle White Solution #2718 to Rats|: Assay No. 810286. (Unpublished study received Oct 5, 1978 under 2596-69; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235297-D)
107246	Hartz Mountain Corp. (1978) ?Evaluation of Insecticidal Aerosol Compounds against Fleas and Ticks|. (Compilation; unpublished study received Oct 5, 1978 under 2596-69; CDL:235297-E)
107247	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810270. (Unpublished study received Oct 5, 1978 under 2596- 71; prepared by Leberco Laboratories, submitted by Hartz Moun- tain Corp., Harrison, NJ; CDL:235298-A)
107248	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810269. (Unpublished study received Oct 5, 1978 under 2596-71; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235298-B)
107249	Levenstein, I. (1978) ?Toxicity of 1 Bottle Green Solution #2681 to Rats|: Assay No. 810271. (Unpublished study received Oct 5, 1978 under 2596-71; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235298-C)
107250	Balok, J.; Sonenshine, D. (1978) Evaluation of Two Insecticidal Shampoos against Cat Fleas, Ctenocephalides felis, and Brown Dog Ticks, Rhipicephalus Sanguineus, on Dogs: File #339. Final rept. (Unpublished study received Oct 5, 1978 under 2596-71; prepared by Environmental Consultants, Inc., submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235298-D)
107251	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810273. (Unpublished study received Oct 5, 1978 under 2596- 72; prepared by Leberco Laboratories, submitted by Hartz Moun- tain Corp., Harrison, NJ; CDL:235299-A)
107252	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810272. (Unpublished study received Oct 5, 1978 under 2596-72; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235299-B)
107253	Levenstein, I. (1978) ?Toxicity of 1 Bottle Green Solution #2682 to Rats|: Assay No. 810274. (Unpublished study received Oct 5, 1978 under 2596-72; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235299-C)

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107254	Balok, J.; Sonenshine, D. (1978) Evaluation of Two Insecticidal Shampoos against Cat Fleas, Ctenocephalides felis, and Brown Dog Ticks, Rhipicephalus sanguineus, on Dogs: File #339. Final rept. (Unpublished study received Oct 5, 1978 under 2596-72; prepared by Environmental Consultants, Inc., submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235299-D)
107255	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810275. (Unpublished study received Oct 5, 1978 under 2596-73; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235301-A)
107256	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810276. (Unpublished study received Oct 5, 1978 under 2596- 73; prepared by Leberco Laboratories, submitted by Hartz Moun- tain Corp., Harrison, NJ; CDL:235301-B)
107257	Levenstein, I. (1978) ?Toxicity of 1 Bottle White Fluid #2700 to Rats|: Assay No. 810277. (Unpublished study received Oct 5, 1978 under 2596-73; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235301-C)
107258	Balok, J.; Sonenshine, D. (1978) Evaluation of Two Insecticidal Formulations of Hartz Luster Bath against Cat Fleas, Ctenocephalides felis, and Brown Dog Ticks, Rhipicephalus sanguineus, on Dogs: File #339. Final rept. (Unpublished study received Oct 5, 1978 under 2596-73; prepared by Environmental Consultants, Inc., submitted by Hartz Mountain Corp., Harrison, NJ; CDL: 235301-D)
107311	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810278. (Unpublished study received Oct 5, 1978 under 2596-75; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235302-A)
107312	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810279. (Unpublished study received Oct 5, 1978 under 2596-75; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235302-B)
107313	Levenstein, I. (1978) ?Acute Oral Test on Rats|: Assay No. 810280. (Unpublished study received Oct 5, 1978 under 2596-75; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235302-C)
107314	Balok, J.; Sonenshine, D. (1978) Evaluation of Two Formulations of Hartz Luster Bath against Cat Fleas ... and Brown Dog Ticks ... on Cats: File #337. Final rept. (Unpublished study re- ceived Oct 5, 1978 under 2596-75; prepared by Environmental Consultants, Inc., submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235302-D)
107315	Balok, J.; Sonenshine, D. (1978) Evaluation of Two Insecticidal Formulations of Hartz Luster Bath against Cat Fleas ... and Brown Dog Ticks ... on Dogs: File #339. Final rept. (Unpub- lished study received Oct 5, 1978 under 2596-76; prepared by Environmental Consultants, Inc., submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235303-D)
107316	Levenstein, I. (1978) ?Acute Inhalation Test on Rats|: Assay No. 810267. (Unpublished study received Oct 5, 1978 under 2596-67; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235304-A)
107317	Levenstein, I. (1978) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits, Employing the Reference Method De- scribed: Assay No. 810281. (Unpublished study received Oct 5, 1978 under 2596-67; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235304-B)
107318	Levenstein, I. (1978) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: Assay No. 810282. (Unpublished study received Oct 5, 1978 under 2596-67; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235304-C)

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107319	Levenstein, I. (1978) ?Acute Test on Rats|: Assay No. 810283. (Unpublished study received Oct 5, 1978 under 2596-67; prepared by Leberco Laboratories, submitted by Hartz Mountain Corp., Harrison, NJ; CDL:235304-D)
107320	Hartz Mountain Corp. (1978) ?Efficacy of Compounds #2670 and #2673|. (Compilation; unpublished study received Oct 5, 1978 under 2596-67; CDL:235304-E)
107321	Hartz Mountain Corp. (1978) ?Efficacy of Compounds #2670 and #2673|. (Compilation; unpublished study received Oct 5, 1978 under 2596-68; CDL:235305-E)
107515	Ingle, L. (1971) Formulations MGK. TL-192 and TL-193. (Unpub- lished study received Jul 14, 1971 under 1021-1130; prepared by Univ. of Illinois at Urbana-Champaign, submitted by McLaugh- lin Gormley King Co., Minneapolis, MN; CDL:005335-C)
107529	McLaughlin Gormley King Co. (1972) ?Efficacy of TL-415 and F-1871 on Roaches and Other Insects|. (Compilation; unpublished study received Nov 1, 1972 under 1021-1241; CDL:008591-A)
107531	Farnam Companies, Inc. (1973) ?Housefly Control on Horses|. (Com- pilation; unpublished study received Dec 14, 1973 under 270- 100; CDL:008869-A)
107539	McLaughlin Gormley King Co. (1973) MGK Intermediate 1968 with S- bioallethrin and John Doe Label. (Compilation; unpublished study received Jun 15, 1973 under 1021-1241; CDL:005369-A)
107579	ATI Research Center (1970) ?Chemistry Data on Ninol AA62 and Other Chemicals|. (Compilation; unpublished study received Jun 11, 1971 under 5590-139; CDL:023402-A)
107581	McLaughlin Gormley King Co. (1973) Aerosol: ?TL-610, TL-611, TL- 612, TL-613, TL-614, and TL-615|. (Unpublished study received Apr 7, 1973 under 1021-1243; CDL:024363-A)
107582	McLaughlin Gormley King Co. (19??) Toxicology: ?Bioallothrin|. (Compilation; unpublished study received Nov 1, 1972 under 1021- 1127; CDL:024381-B)
107594	Bucknam & Archer (1972) ?Efficacy--Vape Mat|. (Compilation; unpub- lished study received Jul 29, 1974 under 8842-1; CDL:026527-A)
107606	S.C. Johnson & Son, Inc. (1974) Modified Raid House & Garden 3656D63-1. (Unpublished study received Jun 27, 1974 under 4822- 132; CDL:028572-A)
107608	Glomot, R.; Chevalier, B. (1972) Etude de la Toxicite Aigue par Voie Orale Chez le Rat Femelle. (Unpublished study received Jan 22, 1973 under 1021-1185; prepared by Products Chimiques Industriels et Agricoles, Fr., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:050274-A)
107615	United States Testing Co., Inc. (1973) Aerosol Safety Closure Test: Seaquist Kindergard Model II: Research Report USTC #75551. (Unpublished study received Aug 30, 1973 under 3282-27; submit- ted by D-Con Co., Inc., Montvale, NJ; CDL:050515-A)
107622	WARF Institute, Inc. (1974) Report: WARF No. 4080073. (Unpub- lished study received Oct 16, 1974 under 4822-141; submitted by S.C. Johnson and Sons, Inc., Racine, WI; CDL:050821-A)
107629	Taylor, R. (1973) Acute Oral Toxicity (LD50): ?X-2721-2--Rats|. (Unpublished study received Apr 19, 1973 under 1021-1237; pre- pared by Harris Laboratories, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051002-A)
107630	Ingle, L. (1973) Oral LD-50 of TL-382 and TL-383. (Unpublished study received Apr 10, 1973 under 1021-1242; submitted by Mc- Laughlin Gormley King Co., Minneapolis, MN; CDL:051006-A)
107631	McLaughlin Gormley King Co. (19??) Determination de la Dose Lethale 50%. (Unpublished study received Apr 10, 1973 under 1021-1242; submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL: 051006-C)
107632	Ingle, L. (1973) ?Toxicity of TL-382 and TL-383--Rats|. (Unpub- lished study received Apr 10, 1973 under 1021-1242; submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051006-D)
109687	McLaughlin Gormley King Co. (1982) ?Toxicity of MGK Intermediate F-2320: Tests with Various Animals|: Project No. 81-2840A. (Compilation; unpublished study received Apr 14, 1982 under 1021-1510; CDL:248110-A)

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109922	Sugihara Trading of California, Inc. (19??) Inhalation Toxity ?sic| Test Result of Vape Mat against Rats. (Unpublished study re- ceived Jul 23, 1969 under 10468-1; CDL:110508-A)
109956	McLaughlin Gormley King Co., Inc. (1973) S-Bioallethrin-esbi- ol. Minneapolis, MN: MGK. (Interim technical bulletin, Sep; also In unpublished submission received Jul 18, 1974 under 1021- 1243; CDL:221199-A)
110040	Boyle-Midway, Inc. (1971) ?Efficacy of Black Flag Super Spray House and Garden Insect Killer|. (Compilation; unpublished study re- ceived Jan 2, 1979 under 475-210; CDL:237306-B)
110041	Boyle-Midway, Inc. (1978) ?Chemistry Data on Black Flag Profession- al Power House and Garden Insect Killer|. (Compilation; unpub- lished study received Jan 2, 1979 under 475-209; CDL:237308-A)
110048	Harris, D. (1977) Report: WARF Institute No. 6120164. (Unpub- lished study received Oct 4, 1978 under 475-190; submitted by Boyle-Midway, Inc., Cranford, NJ; CDL:236532-A)
110055	Hemsarth, L. (1978) Black Flag Indoor Fogger: Exp. #3-256. (Un- published study received Sep 15, 1978 under 475-193; submitted by Boyle-Midway, Inc., Cranford, NJ; CDL:235155-A)
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111972	Ingle, L. (1971) Oral and Dermal Toxicity of TL-192 and TL-193. (Unpublished study received Aug 6, 1971 under 1021-1060; pre- pared by Univ. of Illinois, Dept. of Zoology, submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:100544-A)
111986	Gabriel, K. (1979) Acute Inhalation Toxicity--Rats: Project No. 78- 1490A. (Unpublished study received Mar 6, 1979 under 1021- 1383; prepared by Biosearch, Inc., submitted by McLaughlin Gorm- ley King Co., Minneapolis, MN; CDL:237886-A)
111987	Gabriel, K. (1979) Guinea Pig Contact Dermal Irritation/Sensitiza- tion: Project No. 78-1490A. (Unpublished study received Mar 6, 1979 under 1021-1383; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:237886-B)
111988	Gabriel, K. (1979) Acute Dermal Toxicity--Rabbits: (TL-1998): Project No. 78- 1490A. (Unpublished study received Mar 6, 1979 under 1021-1383; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:237886-C)
111989	Gabriel, K. (1979) Primary Skin Irritation Study--Rabbits: Project No. 78-1490A. (Unpublished study received Mar 6, 1979 under 1021-1383; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:237886-D)
111990	Gabriel, K. (1979) Primary Eye Irritation Study--Rabbits: Project No. 78-1490A. (Unpublished study received Mar 6, 1979 under 1021-1383; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:237886-E)
111991	Gabriel, K. (1979) Acute Oral Toxicity--Rats: Project No. 78-1490A. (Unpublished study received Mar 6, 1979 under 1021-1383; pre- pared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:237886-F)
119266	Boyle-Midway, Inc. (1979) Efficacy Test Report (Fleas and Ticks): ?Black Flag Automatic Room Fogger--Formula S|. (Compilation; unpublished study received Jan 18, 1979 under 475-211; CDL: 237307-A)
120913	Gabriel, K. (1979) Primary Skin Irritation Study--Rabbits: ?Mc- Laughlin Gormley King Company TL-1933|: Project No. 78-1538A. (Unpublished study received Jan 30, 1979 under 475-211; prepared by Biosearch, Inc., submitted by Boyle-Midway, Inc., Cranford, NJ; CDL:237307-D)

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120914	Gabriel, K. (1979) Acute Dermal Toxicity--Rabbits: ?McLaughlin Gormley King Co. TL-1933|: Project No. 78-1538A. (Unpublished study received Jan 30, 1979 under 475-211; prepared by Bio- search, Inc., submitted by Boyle-Midway, Inc., Cranford, NJ; CDL:237307-E)
121251	Gabriel, K. (1978) Acute Dermal Toxicity--Rabbits: Project No. 78- 1172A. (Unpublished study received Apr 18, 1978 under 1021- 1385; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:233470-C)
121252	Gabriel, K. (1978) Primary Skin Irritation Study--Rabbits: Project No. 78-1172A. (Unpublished study received Apr 18, 1978 under 1021-1385; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:233470-D)
121253	Gabriel, K. (1978) Primary Eye Irritation Study--Rabbits: Project No. 78-1172A. (Unpublished study received Apr 18, 1978 under 1021-1385; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:233470-E)
121254	Gabriel, K. (1978) To Assess the Contact Dermal Irritation/Sensi- tization Potential of X-3240-78 on Guinea Pigs: Project No. 78- 1172-A. (Unpublished study received Apr 18, 1978 under 1021- 1385; prepared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:233470-G)
121644	Penick Corp. (1969) ?Chemical Study: SBP-1382/Bioallethrin 7.5-5 Concentrate|. (Compilation; unpublished study received Apr 2, 1973 under 432-524; CDL:003314-A)
121645	Penick Corp. (1970?) Summary of Toxicology Reports for SBP-1382/ Bioallethrin Concentrate 10-7.5. (Unpublished study received Apr 2, 1973 under 432-524; CDL:003314-B)
121646	Penick Corp. (1969) ?Chemical Study: BioPen-1382 Aqueous Pressur- ized Spray|. (Compilation; unpublished study received Oct 30, 1970 under 432-482; CDL:003340-A)
121647	Levenstein, I. (1970) To Determine If the Test Material Produces Any Irritation When Instilled into Rabbits' Eyes: ?SBP-1382/Bio- allethrin|: Assay No. 09351. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Laboratories, sub- mitted by Penick Corp., Lyndhurst, NJ; CDL:003340-B)
121648	Levenstein, I. (1970) To Determine the Degree of Irritation the Material May Produce When Applied to the Clipped Intact and Abraded Skin of Rabbits: ?SBP-1382/Bioallethrin|: Assay No. 09352. (Unpublished study received Oct 30, 1970 under 432- 482; prepared by Leberco Laboratories, submitted by Penick Corp., Lyndhurst, NJ; CDL:003340-C)
121650	Wolven, A.; Levenstein, I. (1970) To Determine the Oral LD50 in Fasted Rats of the Test Material As Submitted: ?SBP-1382/Bio- allethrin|: Assay No. 09339. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Laboratories, sub- mitted by Penick Corp., Lyndhurst, NJ; CDL:003340-E)
121651	Wolven, A.; Levenstein, I. (1970) ?Toxicity Study: SBP-1382/Bioal- lethrin to Guinea Pigs|: Assay No. 09353. (Unpublished study received Oct 30, 1970 under 432-482; prepared by Leberco Labora- tories, submitted by Penick Corp., Lyndhurst, NJ; CDL:003340-F)
121652	Penick Corp. (1970) ?SBP-1382 + Bioallethrin Efficacy on Roses and Other Vegetation|. (Compilation; unpublished study received Oct 30, 1970 under 432-482; CDL:003340-G)
121653	Penick Corp. (1969) ?Chemical Study: SBP-1382 40% Oil Base Concen- trate|. (Compilation; unpublished study received Apr 1, 1971 under 432-486; CDL:003341-A)
121654	Penick Corp. (1970) ?Efficacy of SBP-1382 + Bioallethrin against Selected Insects|. (Compilation; unpublished study received Apr 1, 1971 under 432-486; CDL:003341-G)
121655	Penick Corp. (1972) ?Chemical Study: Bioallethrin and SBP-1382 in Aqueous Pressurized Sprays|. (Compilation; unpublished study received Aug 9, 1972 under 432-507; CDL:003358-A)
121656	Penick Corp. (1972) ?SBP-1382 + Bioallethrin Efficacy on White Pine and Other Selected Vegetation|. (Compilation; unpublished study received Aug 9, 1972 under 432-507; CDL:003358-G)

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121658	S.C. Johnson and Sons, Inc. (1979) Raid Yard Guard Outdoor Fogger II: Formula 4719D38-2: Chemical Data. (Compilation; unpub- lished study received Sep 18, 1979 under 4822-161; CDL:241022-A)
122327	Gabriel, K. (1978) Acute Oral Toxicity--Rats: Project No. 78-1172A. (Unpublished study received Apr 18, 1978 under 1021-1385; pre- pared by Biosearch, Inc., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:233470-F)
122479	Penick Corp. (1970) Summary of Toxicology Reports for SBP-1382/Bio- allethrin Concentrate 1.0-0.75. (Unpublished study received Nov 6, 1972 under 432-511; CDL:003361-B)
122480	U.S. Agricultural Research Service (1970) ?Efficacy of Allethrin on Selected Insects|. (Compilation; unpublished study received Nov 30, 1970 under 11312-4; CDL:004828-A)
122481	Douglas Veterinary Products, Inc. (19??) Tests of Efficacy: ?Summer Itch Emulsion--Dogs|. (Compilation; unpublished study received Jan 13, 1971 under 11466-1; CDL:004838-A)
122482	Douglas Veterinary Products, Inc. (19??) Animal Spray Tests (Vet. Supervised) (Dogs): ?Summer Itch Emulsion|. (Unpublished study received Jan 13, 1971 under 11466-1; CDL:004838-B)
122483	Douglas Veterinary Products, Inc. (19??) Complete Emersion Tests: ?Summer Itch Emulsion--Dogs|. (Unpublished study received Jan 13, 1971 under 11466-1; CDL:004838-C)
122484	Douglas Veterinary Products, Inc. (19??) Intraperitoneal (I.P.) In- jection Toxicology Tests: ?Summer Itch Emulsion|. (Unpublished study received Jan 13, 1971 under 11466-1; CDL:004838-D)
122485	Penick Corp. (1973) ?Chemical Study: SBP-1382/Bioallethrin 23-38.4 Concentrate|. (Compilation; unpublished study received Jul 25, 1973 under 432-531; CDL:008494-A)
122486	Penick Corp. (1972) ?Chemical Study of SBP-1382/Bioallethrin 4-3 Transparent Emulsion Concentrate|. (Compilation; unpublished study received Aug 30, 1973 under 432-532; CDL:008921-A)
122487	Chesher, B.; Malone, J. (1972) Bioallethrin, 24 Hour Exposure Rat Inhalation Study: Report Series B No. 75-72. (Unpublished study received Sep 22, 1972 under 1021-1217; prepared by Wellcome Foundation Ltd., Eng., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051098-A)
122488	Verece, R.; Malone, J. (1969) Dermal Irritancy of Pyrethroids and Piperonyl Butoxide to Rabbits: Report Series B No. 47/69. (Un- published study received Sep 22, 1972 under 1021-1217; prepared by Research and Development (V & A), submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051098-B)
122489	McLaughlin Gormley King Co. (19??) Toxicology: ?Acute Toxicity Com- pared in the Male and Female Rat|. (Unpublished study received Sep 22, 1972 under 1021-1217; CDL:051098-C)
122490	Glomot, R. (1970) H 3565 Bioallethrine--Allethrine Commerciale. (Unpublished study received Sep 22, 1972 under 1021-1217; sub- mitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL: 051098-D)
122491	Wallwork, L.; Malone, J. (1972) Bioallethrin--Rat Dermal and Intra- peritoneal Toxicity: Report Series B No. 44-72. (Unpublished study received Sep 22, 1972 under 1021-1217; submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051098-E)
122492	Wallwork, L.; Clampitt, R.; Malone, J. (1972) Bioallethrin, Rat Oral 90 Day Toxicity Study: Report Series B No. 40-72. (Unpub- lished study received Sep 22, 1972 under 1021-1217; prepared by Wellcome Foundation Ltd., Eng., submitted by McLaughlin Gormley King Co., Minneapolis, MN; CDL:051098-F)

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122947	McLaughlin Gormley King Co. (1978) ?Chemical Study: D-trans Alle- thrin and Sumithrin|. (Compilation; unpublished study received Oct 31, 1978 under 1021-1390; CDL:236643-A)
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129199	Sumitomo Chemical America, Inc. (1983) ?Chemistry of Pynamin Forte 60 Mosquito Mat|. (Compilation; unpublished study received Jun 29, 1983 under 39398-18; CDL:250691-A)
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130420	Cerven, D.; Moreno, O.; Altenbach, E. (1983) Single Dose Oral Toxi- city in Rats: ?SBP-1382/Bioallethrin 0.20%-0.15% APS without Propellant|: Project No. MB 82-6511 A. (Unpublished study re- ceived Aug 23, 1983 under 432-482; prepared by MB Research Labo- ratories, Inc., submitted by Penick Corp., Lyndhurst, NJ; CDL: 251057-A)
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130589	Sumitomo Chemical America, Inc. (1982) ?Efficacy: Pynamin Forte|. (Compilation; unpublished study received Jun 29, 1983 under 39398-20; CDL:250692-B)
131138	Costello, B.; Moore, G. (1983) Acute Oral Toxicity--Rats: ?Multi- cide Intermediate 2209|: Project No. 83-3491A. (Unpublished study received Sep 19, 1983 under 1021-1293; prepared by Bio- search, Inc., submitted by McLaughlin Gormley King Co., Minnea- polis, MN; CDL:251258-A)
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131281	Gabriel, K.; Costello, B. (1982) Acute Dermal Toxicity LD50--Rab- bits: ?Intermediate 1957 2.5% w/v Dilution in Conoco LPA|: Pro- ject No. 82-3097A. (Unpublished study received Jul 12, 1983 un- der 5748-85; prepared by Biosearch, Inc., submitted by Conwood Corp., Memphis, TN; CDL:251440-B)
131282	Gabriel, K.; Costello, B. (1982) Primary Skin Irritation--Rabbits: ?Intermediate 1957 2.5% w/v Dilution in Conoco LPA|: Project No. 82-3097A. (Unpublished study received Jul 12, 1983 under 5748-85; prepared by Biosearch, Inc., submitted by Conwood Corp., Memphis, TN; CDL:251440-C)
131283	Gabriel, K.; Costello, B. (1982) Primary Eye Irritation--Rabbits: ?Intermediate 1957 2.5% w/v Dilution in Conoco LPA|: Project No. 82-3097A. (Unpublished study received Jul 12, 1983 under 5748-85; prepared by Biosearch, Inc., submitted by Conwood Corp., Memphis, TN; CDL:251440-D)
131284	Gabriel, K.; Costello, B. (1982) Guinea Pig Contact Dermal Irrita- tion/Sensitization--Modified Buehler Method: ?Intermediate 1957 2.5% w/v Dilution in Conoco LPA|: Project No. 82-3097A. (Unpub- lished study received Jul 12, 1983 under 5748-85; prepared by Biosearch, Inc., submitted by Conwood Corp., Memphis, TN; CDL: 251440-E)
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131411	Gabriel, K. (1981) Acute Dermal Toxicity LD50--Rabbits: ?TL-2251|: Project No. 81-2354A. (Unpublished study received Sep 19, 1983 under 1021-1492; prepared by Biosearch, Inc., submitted by Mc- Laughlin Gormley King Co., Minneapolis, MN; CDL:251313-B)
131412	Gabriel, K. (1981) Primary Eye Irritation--Rabbits: ?TL-2251|: Pro- ject No. 81-2354A. (Unpublished study received Sep 19, 1983 un- der 1021-1492; prepared by Biosearch, Inc., submitted by Mc-Laughlin Gormley King Co., Minneapolis, MN; CDL:251313-D)
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