United States
Environmental Protection
Agency

Office of
Pesticides and Toxic Substances
Washington DC 20460

December 1981

Pesticides

Bifenox

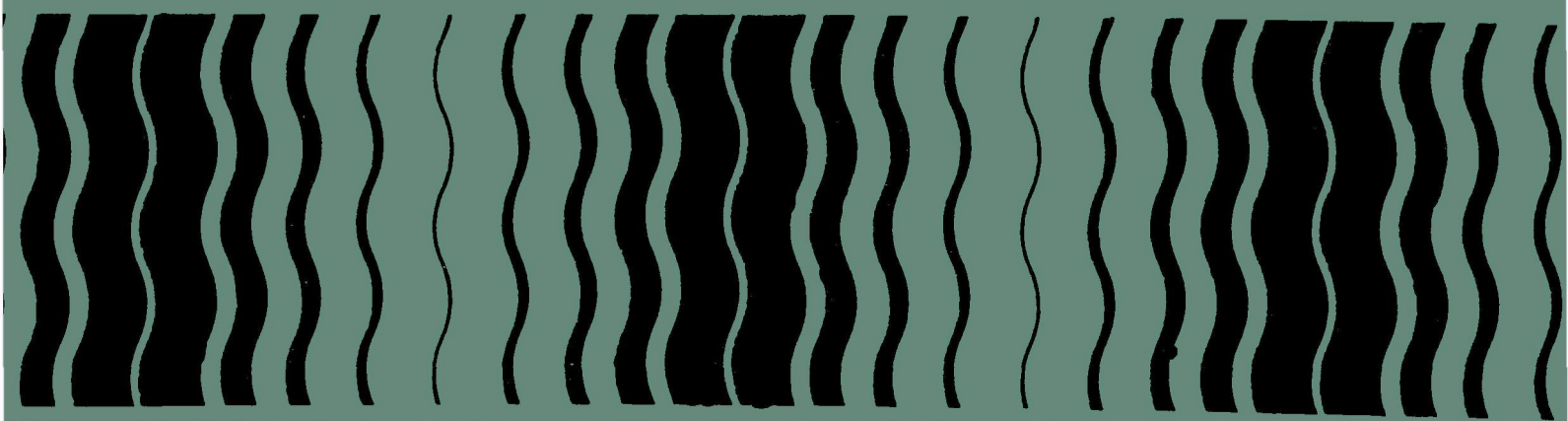
Methyl

5-(2,4-dichlorophenoxy)

-2-nitrobenzoate

Pesticide Registration

Standard



BIFENOX

Pesticide Registration Standard

June, 1981

Office of Pesticides and Toxic Substances

Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

BIFENOX

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TABLE OF CONTENTS

Chapter 1
HOW TO REGISTER UNDER A REGISTRATION STANDARD

Organization of the Standard
Purpose of the Standard
Requirement to Re-register Under the Standard
"Product Specific" Data and "Generic" Data
Data Compensation Requirements under FIFRA 3(c)(1)(D)
Obtaining Data to Fill "Data Gaps"; FIFRA 3(c)(2)(B)
Amendments to the Standard

Organization of the Standard

This first chapter explains the purpose of a Registration Standard and summarizes the legal principles involved in registering or re-registering under a Standard. The second chapter sets forth the requirements that must be met to obtain or retain registration for products covered by this particular Registration Standard. In the remaining chapters, the Agency reviews the available data by scientific discipline, discusses the Agency's concerns with the identified potential hazards, and logically develops the conditions and requirements that would reduce those hazards to acceptable levels.

Purpose of the Standard

Section 3 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) provides that "no person in any State may distribute, sell, offer for sale, hold for sale, ship, deliver for shipment, or receive (and having so received) deliver or offer to deliver, to any person any pesticide which is not registered with the Administrator [of EPA]." To approve the registration of a pesticide, the Administrator must find, pursuant to Section 3(c)(5) that:

> "(A) its composition is such as to warrant the proposed claims for it;
> (B) its labeling and other material required to be submitted comply with the requirements of this Act;
> (C) it will perform its intended function without unreasonable adverse effects on the environment; and
> (D) when used in accordance with widespread and commonly recognized practice it will not generally cause unreasonable adverse effects on the environment."

In making these findings, the Agency reviews a wide range of data which registrants are required to submit, and assesses the risks and benefits associated with the use of the proposed pesticide. But the established approach to making these findings has been found to be defective on two counts:

First, EPA and its predecessor agency, the United States Department of Agriculture (USDA), routinely reviewed registration applications on a 'product by product' basis, evaluating each product-specific application somewhat independently. In the review of products containing similar components, there was little opportunity for a retrospective review of the full range of pertinent data available in Agency files and in the public literature. Thus the 'product by product' approach was often inefficient and sometimes resulted in inconsistent or incomplete regulatory judgments.

Second, over the years, as a result of inevitable and continuing advances in scientific knowledge, methodology, and policy, the data base for many pesticides came to be considered inadequate by current scientific and regulatory standards. Given the long history of pesticide regulation in several agencies, it is even likely that materials may have been lost from the data files. When EPA issued new requirements for registration in 1975 (40 CFR 162) and proposed new guidelines for hazard testing in 1978 (43 FR 29686, July 10, 1978 and 43 FR 37336, August 22, 1978), many products that had already been registered for years were being sold and used without the same assurances of human and environmental safety as was being required for new products. Because of this inconsistency, Congress directed EPA to re-register all previously registered products, so as to bring their registrations and their data bases into compliance with current requirements [See FIFRA Section 3(g)].

Facing the enormous job of re-reviewing and calling-in new data for the approximately 35,000 current registrations, and realizing the inefficiencies of the 'product by product' approach, the Agency decided that a new, more effective method of review was needed.

A new review procedure has been developed. Under it, EPA publishes documents called Registration Standards, each of which discusses a particular pesticide active ingredient. Each Registration Standard summarizes all the data available to the Agency on a particular active ingredient and its current uses, and sets forth the Agency's comprehensive position on the conditions and requirements for registration of all existing and future products which contain that active ingredient. These conditions and requirements, all of which must be met to obtain or retain full registration or re-registration under Section 3(c)(5) of FIFRA, include the submission of needed scientific data which the Agency does not now have, compliance with standards of toxicity, composition, labeling, and packaging, and satisfaction of the data compensation provisions of FIFRA Section 3(c)(1)(D).

The Standard will also serve as a tool for product classification. As part of the registration of a pesticide product, EPA may classify each product for "general use" or "restricted use" [FIFRA Section 3(d)]. A pesticide is classified for "restricted use" when some special regulatory restriction is needed to ensure against unreasonable adverse effects to man or the environment. Many such risks of unreasonable adverse effects can be lessened if expressly designed label precautions are strictly followed. Thus, the special regulatory restriction for a "restricted use" pesticide is usually a requirement that it be applied only by, or under the supervision of, an applicator who has been certified by the State or Federal government as being competent to use pesticides safely, responsibly, and in accordance with label directions. A restricted-use pesticide can have other regulatory restrictions [40 CFR 162.11(c)(5)] instead of, or in addition to, the certified applicator requirement. These other regulatory restrictions may include such actions as seasonal or regional limitations on use, or a requirement for the monitoring of residue levels after use. A pesticide classified for "general use," or not classified at all, is available for use by any individual who is in compliance with State or local regulations. The Registration Standard review compares information about potential adverse effects of specific uses of the pesticide with risk criteria listed in 40 CFR 162.11(c), and thereby determines whether a product needs to be classifed for "restricted use." If the Standard does classify a pesticide for "restricted use," this determination is stated in the second chapter.

Requirement to Re-register Under the Standard

FIFRA Section 3(g), as amended in 1978, directs EPA to re-register all currently registered products as expeditiously as possible. Congress also agreed that re-registration should be accomplished by the use of Registration Standards.

Each registrant of a currently registered product to which this Standard applies, and who wishes to continue to sell or distribute his product in commerce, must apply for re-registration. His application must contain proposed labeling that complies with this Standard.

EPA will issue a notice of intent to cancel the registration of any currently registered product to which this Standard applies if the registrant fails to comply with the procedures for re-registration set forth in the Guidance Package which accompanies this Standard.

"Product Specific" Data and "Generic" Data

In the course of developing this Standard, EPA has determined the types of data needed for evaluation of the properties and effects of products to which the Standard applies, in the disciplinary areas of Product Chemistry, Environmental Fate, Toxicology, Residue Chemistry, and Ecological Effects. These determinations are based primarily on the data Guidelines proposed in 1978 (43 FR 29686, July 10, 1978, and 43 FR 37336, August 2, 1978), as applied to the use patterns of the products to which this Standard applies. Where it appeared that data from a normally applicable Guidelines requirement was actually unnecessary to evaluate these products, the Standard indicates that the requirement has been waived. On the other hand, in some cases studies not required by the Guidelines may be needed because of the particular composition or use pattern of products the Standard covers; if so, the Standard explains the Agency's reasoning. Data guidelines have not yet been proposed for the Residue Chemistry discipline, but the requirements for such data have been in effect for some time and are, the Agency believes, relatively familiar to registrants. Data which we have found are needed to evaluate the registrability of some products covered by the Standard may not be needed for the evaluation of other products, depending upon the composition, formulation type, and intended uses of the product in question. The Standard states which data requirements apply to which product categories. (See the second chapter). The various kinds of data normally required for registration of a pesticide product can be divided into two basic groups:

(A) data that are "product specific," i.e., data that relates only to the properties or effects of a product with a particular composition (or a group of products with closely similar composition); and

(B) "generic" data that pertain to the properties or effects of a particular ingredient, and thus is relevant to an evaluation of risks and benefits of all products containing that ingredient (or all such products having a certain use pattern), regardless of any such product's unique composition.

The Agency requires certain "product specific" data for each product to characterize the product's particular composition and physical/chemical properties (Product Chemistry), and to characterize the product's acute toxicity (which is a function of its total composition). The applicant for registration or

re-registration of any product, whether it is a manufacturing-use or end-use product, and without regard to its intended use pattern, must submit or cite enough of this kind of data to allow EPA to evaluate the product. For such purposes, "product specific" data on any product other than the applicant's is irrelevant, unless the other product is closely similar in composition to the applicant's. (Where it has been found practicable to group similar products for purposes of evaluating, with a single set of tests, all products in the group, the Standard so indicates). "Product specific" data on the efficacy of particular end-use products is also required where the exact formulation may affect efficacy and where failure of efficacy could cause public health problems.

All other data needed to evaluate pesticide products concerns the properties or effects of a particular ingredient of products (normally a pesticidally active ingredient, but in some cases a pesticidally inactive, "inert," ingredient). Some data in this "generic" category are required to evaluate the properties and effects of all products containing that ingredient [e.g., the acute LD_{50} of the active ingredient in its technical or purer grade; see proposed 40 CFR 163.81-1(a), 43 FR 37355].

Other "generic" data are required to evaluate all products which both contain a particular ingredient and are intended for certain uses (see, e.g., proposed 40 CFR 163.82-1, 43 FR 37363, which requires subchronic oral testing of the active ingredient with respect to certain use patterns only). Where a particular data requirement is use-pattern dependent, it will apply to each end-use product which is to be labeled for that use pattern (except where such end-use product is formulated from a registered manufacturing-use product permitting such formulations) and to each manufacturing-use product with labeling that allows it to be used to make end-use products with that use pattern. Thus, for example, a subchronic oral dosing study is needed to evaluate the safety of any manufacturing-use product that legally could be used to make an end-use, food-crop pesticide. But if an end-use product's label specified it was for use only in ways that involved no food/feed exposure and no repeated human exposure, the subchronic oral dosing study would not be required to evaluate the product's safety; and if a manufacturing-use product's label states that the product is for use only in making end-use products not involving food/feed use or repeated human exposure, the subchronic oral study would not be relevant to the evaluation of the manufacturing-use product either.

If a registrant of a currently registered manufacturing-use or end-use product wishes to avoid the costs of data compensation [under FIFRA Section 3(c)(1)(D)] or data generation [under Section 3(c)(2)(B)] for "generic" data that is required only with respect to some use patterns, he may elect to delete those use patterns from his labeling at the time he re-registers his product. An applicant for registration of a new product under this Standard may similarly request approval of only certain use patterns.

Data Compensation Requirements under FIFRA 3(c)(1)(D)

Under FIFRA Section 3(c)(1)(D), an applicant for registration, re-registration, or amended registration must offer to pay compensation for certain existing data the Agency has used in developing the Registration Standard. The data for which compensation must be offered is all data which is described by all the following criteria:

(1) The data were first submitted to EPA (or to its predecessor agencies, USDA or FDA), on or after January 1, 1970;

(2) The data were submitted to EPA (or USDA or FDA) by some other applicant or registrant in support of an application for an experimental use permit, an amendment adding a new use to a registration, or for re-registration, or to support or maintain in effect an existing registration;

(3) They are the kind of data which are relevant to the Agency's decision to register or re-register the applicant's product under the Registration Standard, taking into account the applicant's product's composition and intended use pattern(s);

(4) The Agency has found the data to be valid and usable in reaching regulatory conclusions; and

(5) They are not data for which the applicant has been exempted by FIFRA Section 3(c)(2)(D) from the duty to offer to pay compensation. (This exemption applies to the "generic" data concerning the safety of an active ingredient of the applicant's product, not to "product specific" data. The exemption is available only to applicants whose product is labeled for end-uses for which the active ingredient in question is present in the applicant's product because of his use of another registered product containing that active ingredient which he purchases from another producer).

An applicant for re-registration of an already registered product under this Standard, or for registration of a new product under this Standard, accordingly must determine which of the data used by EPA in developing the Standard must be the subject of an offer to pay compensation, and must submit with his application the appropriate statements evidencing his compliance with FIFRA Section 3(c)(1)(D).

An applicant would never be required to offer to pay for "product specific" data submitted by another firm. In many, if not in most cases, data which are specific to another firm's product will not suffice to allow EPA to evaluate the applicant's product, that is, will not be useful to the Agency in determining whether the applicant's product is registrable. There may be cases, however, where because of close similarities between the composition of two or more products, another firm's data may suffice to allow EPA to evaluate some or all of the "product specific" aspects of the applicant's product. In such a case, the applicant may choose to cite that data instead of submitting data from tests on his own product, and if he chooses that option, he would have to comply with the offer-to-pay requirements of Section 3(C)(1)(D)for that data.

Each applicant for registration or re-registration of a manufacturing-use product, and each applicant for registration or re-registration of an end-use product, who is not exempted by FIFRA Section 3(c)(2)(D), must comply with the Section 3(c)(1)(D) requirements with respect to each item of "generic" data that relates to his product's intended uses.

A detailed description of the procedures an applicant must follow in applying for re-registration (or new registration) under this Standard is found in the Guidance Package for this Standard.

Obtaining Data to Fill "Data Gaps"; FIFRA 3(c)(2)(B)

Some of the kinds of data EPA needs for its evaluation of the properties and effects of products to which this Standard applies have never been submitted to the Agency (or, if submitted, have been found to have deficiencies rendering them inadequate for making registrability decisions) and have not been located in the published literature search that EPA conducted as part of preparing this Standard. Such instances of missing but required data are referred to in the Standard as "data gaps".

FIFRA Section 3(c)(2)(B), added to FIFRA by the Congress in 1978, authorizes EPA to require registrants to whom a data requirement applies to generate (or otherwise produce) data to fill such "gaps" and submit those data to EPA. EPA

must allow a reasonably sufficient period for this to be accomplished. If a registrant fails to take appropriate and timely steps to fill the data gaps identified by a section 3(c)(2)(B) order, his product's registration may be suspended until the data is submitted. A mechanism is provided whereby two or more registrants may agree to share in the costs of producing data for which they are both responsible.

The Standard lists, in the third chapter, the "generic" data gaps and notes the classes of products to which these data gaps pertain. The Standard also points out that to be registrable under the Standard, a product must be supported by certain required "product specific" data. In some cases, the Agency may possess sufficient "product specific" data on one currently registered product, but may lack such data on another. Only those Standards which apply to a very small number of currently registered products will attempt to state definitively the "product specific" data gaps on a 'product by product' basis. (Although the Standard will in some cases note which data that EPA does possess would suffice to satisfy certain "product specific" data requirements for a category of products with closely similar composition characteristics.)

As part of the process of re-registering currently registered products, EPA will issue Section 3(c)(2)(B) directives requiring the registrants to take appropriate steps to fill all identified data gaps -- whether that data in question is "product specific" or "generic" -- in accordance with a schedule.

Persons who wish to obtain registrations for new products under this Standard will be required to submit (or cite) sufficient "product specific" data before their applications are approved. Upon registration, they will be required under Section 3(c)(2)(B) to take appropriate steps to submit data needed to fill "generic" data gaps. (We expect they will respond to this requirement by entering into cost-sharing agreements with other registrants who previously have been told they must furnish the data.) The Guidance Package for this Standard details the steps that must be taken by registrants to comply with Section 3(c)(2)(B).

Amendment to the Standard

Applications for registration which propose uses or formulations that are not presently covered by the Standard, or which present product compositions, product chemistry data, hazard data toxicity levels, or labeling that do not meet the requirements of the Standard, will automatically be considered by the Agency to be requests for amendments to the Standard. In response to such applications, the Agency may request additional data to support the proposed amendment to the Standard, or may deny the application for registration on the grounds that the proposed product would cause unreasonable adverse effects to the environment. In the former case, when additional data have been satisfactorily supplied, and providing that the data do not indicate the potential for unreasonable adverse effects, the Agency will then amend the Standard to cover the new registration.

Each Registration Standard is based upon all data and information available to the Agency's reviewers on a particular date prior to the publication date. This "cut-off" date is stated at the beginning of the second chapter. Any subsequent data submissions and any approved amendments will be incorporated into the Registration Standard by means of addenda, which are available for inspection at EPA in Washington, D.C., or copies of which may be requested from the Agency. When all the present "data gaps" have been filled and the submitted data have been reviewed, the Agency will revise the Registration Standard. Thereafter, when the Agency determines that the internally maintained addenda have significantly altered the conditions for registration under the Standard, the document will be updated and re-issued for publication.

While the Registration Standard discusses only the uses and hazards of products containing the designated active ingredient(s), the Agency is also concerned with the potential hazards of some inert ingredients and impurities. Independent of the development of any one Standard, the Agency has initiated the evaluation of some inert ingredients of concern in a specific product to which the Standard applies, these ingredients will be pointed out in the Guidance Package.

II. REGULATORY POSITION

A. INTRODUCTION

This chapter presents the Agency's regulatory position on products which contain bifenox as the sole active ingredient and have the same use patterns as described in this Standard. The regulatory position adopted by the Agency incorporates a number of considerations. Foremost among these considerations is an analysis of the registrability of products containing bifenox based on the risk criteria found in Section 162.11(a) of Title 40 of the U.S. Code of Federal Regulations. The Agency's determination is presented below, and the rationale for this decision follows the position.

In addition to the basic regulatory decision and rationale, this chapter includes the following: criteria for the registration of bifenox products under the Standard; acceptable ranges and limits for product composition, acute toxicity, and use pattern/application method; required labeling; and tolerance reassessment.

A summary of data requirements is contained in Chapter III, Tables 1-3. Discussion of the data upon which this regulatory position is based is presented in each of the disciplinary chapters, (Chapters IV-VIII).

B. DESCRIPTION OF CHEMICAL

Bifenox is the common name for the herbicide methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate. This herbicide is used for preemergent weed control on soybeans, corn and sorghum; pre- and postemergent use on rice, barley, wheat, and oats, and postemergent use on forest tree nursery seedbeds.

The trade name for this chemical is Modown^{R}. The Chemical Abstracts Registry (CAS) number for bifenox is 42576-02-03. This number was formerly 12680-11-4.

C. REGULATORY POSITION

The Agency has reviewed the data available to it on bifenox. As will be indicated in the Topical Discussions which follow, scientific data on bifenox products are limited. While a complete data base is available on the residue chemistry of bifenox, data on the physical/chemical properties, ecological effects, and environmental fate are limited, insufficient, or unavailable. Data needed to determine the toxicity of bifenox to humans are absent because the studies available to the Agency were conducted by Industrial Bio-Test Laboratories (IBT), see Chapter VI. Thus, much of the data needed to assess the hazard of bifenox to man and the environment do not now exist.

Based on review of the available scientific data obtained from the open literature as of May, 1981, and the data submitted by the registrant up through publication of this Standard,the Agency believes that none of the risk criteria found in Section 162.11(a) of Title 40 of the U.S. Code of Federal Regulations would be met or exceeded and that bifenox does not appear to cause unreasonable adverse effects with proper label directions and precautions. In accordance with FIFRA, the Agency's policy is not to cancel routinely the registration of products merely because it lacks data, or to withhold registration merely for the lack of data [See Section 3(C)(2)(B) and Section (3)(c)(7) of FIFRA]. Bifenox products as described in this Standard, therefore, may be registered for sale, distribution, reformulation and use in the United States subject to the the conditions imposed for data requirements. New products may be registered under this Standard and are subject to the same requirements. When the data gaps identified in this Standard are filled, the Agency will reassess the registration status of bifenox.

D. REGULATORY RATIONALE

Bifenox is a pre-emergent herbicide used to control a variety of weeds. The chemical is used also as a postemergent treatment on some agricultural sites. Bifenox was developed during the early 1970's by the Phosphorous Division of Mobil Chemical Company. This chemical has had appreciable use since then, with an annual estimated production of 2-3 million pounds.

Numerous gaps in the data base preclude completion of an assessment of the hazards and potential risks to humans and the environment as a result of exposure to Bifenox products.

Other than the data generated by IBT, toxicity data are not available on any bifenox products. Some data are available on the physical/chemical properties of bifenox, but several gaps exist in the product chemistry data base. There are limited data on the environmental fate and ecological effects of bifenox. Several of the submitted studies on ecological effects either did not meet Agency's guideline requirements due to deviations from acceptable protocols, or were IBT data which could not be included in the Standard (see Chapters III, VI and VIII).

A review of the studies sufficient to meet data requirements and those which failed to meet data requirements but which provided some level of qualitative information revealed no adverse effects of regulatory concern. Thus, the Agency does not have reason to believe that the use of bifenox will cause unreasonable adverse effects when used in compliance with proper label directions and precautions.

As noted in Chapter V on the fate of bifenox in the environment, some exposure can be expected from use of this pesticide, with the greatest potential occurring during mixing, loading, and spraying operations. However, data are not available to estimate the degree of such exposure. Exposure can be minimized by the use of gloves and protective clothing during mixing and loading and by following use and disposal directions currently found on the labels.

E. CRITERIA FOR REGISTRATION UNDER THE STANDARD

To be subject to this Standard, bifenox products must meet the following conditions:

(a) contain bifenox as the sole active ingredient or contain bifenox in a mixture which has the same use patterns described in this Standard;

(b) be within acceptable standards of product composition;

(c) be within acceptable acute toxicity limits;

(d) be labeled for acceptable end-uses; and

(e) bear required labeling.

Manufacturing-use bifenox products must bear label directions for formulation into acceptable end-uses.

Applicants for registration or reregistration of bifenox products subject to this Standard must comply with all terms and conditions described in this Standard, including commitment to fill data gaps on a time schedule specified by the Agency and, when applicable, offer to pay compensation to the extent required by 3(c)(1)(D) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, 7 U.S.C. 136(c)(1)(D) and 136(c)(2)(D). As discussed in Chapter I, applicants for registration under this Standard must contact the Agency for specific instructions, including updated information on data requirements and companies whose data must be cited and to whom compensation must be offered.

The only registrant that has submitted data in support of bifenox registrations, and has not waived rights to compensation for data, is Mobil Chemical Company.

Acceptable Ranges and Limits

a. Manufacturing-use Bifenox

1. Product Composition Standard

To be covered under this Standard, manufacturing-use bifenox products must contain bifenox as the sole active ingredient. Manufacturing-use bifenox products with any percentage of active ingredient with appropriate certification of limits are acceptable under this Standard.

2. Acute Toxicity Limits

The Agency will consider registration of manufacturing-use bifenox products in the following toxicity categories:

	I	II	III	IV
Acute oral toxicity	yes	yes	yes	yes
Acute dermal toxicity	yes	yes	yes	yes
Acute inhalation toxicity	yes	yes	yes	yes
Primary eye irritation	yes	yes	yes	yes
Primary dermal irritation	yes	yes	yes	yes

3. Use Patterns

To be covered under this Standard, manufacturing-use bifenox products must be labeled for formulation into end-use pesticides which are intended for terrestrial and aquatic applications.

b. End Use Bifenox - Wettable Powder, Emulsifiable Concentrate, Flowable

1. Product Composition Standard

End use bifenox products with any percentage of active ingredient are acceptable under this Standard with appropriate certification of limits.

Inert ingredients in food-use formulations must be cleared for such use under 40 CFR 180-1001. The inert ingredients in the end use bifenox products are exempt according to 40 CFR 180.1001(c) and (d).

2. Acute Toxicity Limits

The Agency will consider registration of any end use bifenox product for nondomestic use in the following categories:

	I	II	III	IV
Acute oral toxicity	yes	yes	yes	yes
Acute dermal toxicity	yes	yes	yes	yes
Acute inhalation toxicity	yes	yes	yes	yes
Primary eye irritation	yes	yes	yes	yes
Primary dermal irritation	yes	yes	yes	yes

3. Use Patterns and Applications Methods

To be registered under this Standard, end use products of bifenox must be labeled as herbicides for the following uses:

food uses	non-food uses
corn	forest nursery seedbeds
rice	
sorghum	
soybeans	
small grains (oats, barley, wheat)	

The Agency finds that it must limit application rates not to exceed current levels because of a lack of adequate data needed to complete a hazard assessment. This is an interim measure which may need to be reassessed following the receipt of required data.

F. REQUIRED LABELING

All manufacturing-use and end-use bifenox products must bear appropriate labeling as specified in 40 CFR 162.10. The guidance package for this Standard contains specific information regarding label requirements.

1. Manufacturing-Use Products

a. Use Pattern Statements

All manufacturing-use bifenox products must list on the label the intended end-uses of formulated products

produced from the manufacturing-use product. In accordance with data to be submitted or cited, all manufacturing-use bifenox labels must bear the following statement:

"For Formulation into End-Use Herbicide Products Intended Only for Terrestrial and Aquatic Use"

b. Precautionary Statements

There are no unique precautionary statements which must appear on the bifenox label. The guidance package provides an updated list of all standard precautionary statements which must appear for this type of product. The Agency may, after review of data to be submitted under this Standard, impose additional label requirements.

2. End Use Bifenox Products

There are no unique precautionary statements which must appear on the bifenox label. The guidance package provides an updated list of all standard precautionary statements which must appear for this type of product.

The Agency may, after review of data to be submitted under this Standard, impose additional label requirements.

G. TOLERANCE REASSESSMENT

A tolerance of 0.05 ppm has been established in the United States for residues of bifenox (40 CFR 180.351) in or on the following raw agricultural commodities:

Barley (grain, straw)
Corn (field, fodder, forage)
Oats (grain, straw)
Rice (grain,straw)
Sorghum (forage, grain)
Soybeans (forage, hay)
Wheat (grain, straw)

Residue studies conducted on the above commodities show that bifenox residues do not exceed the established pesticide tolerance of 0.05 ppm. No evidence of bifenox residues were found in animal feed items at the practical sensitivity (0.05ppm) of the method. Thus, there is no reasonable expectation of residues in meat, milk, or poultry and eggs.

Based on the established tolerances, the theoretical maximum residue concentration in the diet of bifenox is calculated to be 0.0099 mg/day. In the absence of a toxicology data base, the Agency is unable to set a No Observable Effect Level (NOEL) for bifenox.

No recommendation for maximum residue limits has been made for this chemical by the Codex Alimentarius Commission.

Tolerances have not been established in Mexico for residues of bifenox. Negligible tolerances have been established in Canada at 0.1 ppm in barley, oats and wheat for residues of bifenox.

The U.S. tolerance is a negligible tolerance and could be made consistent with the Canadian tolerance; i.e. 0.1 ppm for the grain crop grouping as defined under Title 40, section 180.34(F), which states in part:

> "It may be possible to make a reliable estimate of negligible residues of pesticide chemicals to be expected on each commodity in a designated grouping on the basis of data on a representative number of commodities listed in the following designated groups."

The commodities listed for grain crops include any crop belonging to the family Graminae that produces mature seeds that are used for food or feed, barley, buckwheat, corn (field corn, sweet corn, and popcorn), millet, milo, oats, rice, rye, sorghums (grain), and wheat.

When the Agency establishes "crop group" tolerances, bifenox would appear to be an ideal candidate for a grain crop tolerance.

Upon receipt of the required toxicology data, tolerances may be reassessed.

III. DATA REQUIREMENTS AND DATA GAPS

A. MANUFACTURING-USE BIFENOX

The toxicology data available to the Agency on bifenox were generated by Industrial Bio-Test Laboratories (IBT). These studies currently are being reviewed by the Canadian government under the EPA Laboratory Audit Program. Under the Registration Standard Program, Agency's policy provides that IBT studies which have not yet been reviewed are considered administratively invalid and will not be included in the Registration Standard. Thus, data requirements identified in the Tables which follow do not reflect company submitted studies which were conducted by IBT. In addition, science chapters do not reflect information contained in IBT studies that have not yet been validated.

Table 1, entitled Bifenox Generic Data Requirements, includes those data that pertain to the properties or effects of bifenox as an active ingredient. Thus, these data are relevant to an evaluation of the risks and benefits of all products containing bifenox. Providing data to fulfill indicated gaps is the primary responsibility of the manufacturing-use product registrant(s). Registrants of end-use products which are not exempted by FIFRA Section 3(c)(2)(D) are also responsible for the submission of these data. Applicants for the registration or reregistration of manufacturing-use bifenox products must acknowledge reliance on existing data which fulfill indicated data requirements under FIFRA 3(c)(1)(D). These data are listed under the column entitled Bibliographic Citation in this table.

Table 2, entitled Bifenox Product-Specific Data Requirements for Manufacturing-Use Products, includes those data that relate only to the properties or effects of a product with a specific composition. Thus, these data are required of each product to characterize the product's particular composition and physical/chemical properties, and acute toxicity. Providing data to fulfill these data requirements for a particular product is the responsibility of each applicant for the registration or reregistration of a manufacturing-use bifenox product. If the Agency has in its possession product-specific data which fulfill a data requirement for a particular product, this is indicated in the guidance package accompanying this Standard.

Applicants for the registration of new manufacturing-use bifenox products must submit all required product specific data or establish that the proposed product is substantially similar to another product for which the Agency has received acceptable product specific data.

If the Agency has determined that one or more existing manufacturing-use bifenox products are substantially similar, then this, too, is indicated. Product specific data need not be acknowledged under FIFRA 3(c)(1)(D) unless the Agency or registrant has established that a product is substantially similar to another product for which the Agency has received acceptable product specific data. If this should occur, the registrant(s) of the former product(s) is required to acknowledge reliance on these data.

B. END USE PRODUCTS OF BIFENOX

Registrants of end-use bifenox products not exempted by FIFRA Section 3(c)(2)(D) are responsible for the submission of "generic" data described in Tables 1 and 2 of this Chapter, in addition to the product specific data listed in Table 3.

Registrants of all end-use bifenox products are advised that if data are not generated to fulfill generic data requirements for the manufacturing-use product(s), these registrations will be suspended. If continued availability of the manufacturing-use product is desired, this data must be supplied.

Table 3, entitled Bifenox Product-Specific Data Requirements for End-Use Products, includes those data that relate only to the properties or effects of an end-use product with a specific composition.

Table 1
Bifenox Product-Chemistry (See Chapter IV)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-8(1)	Color	Yes	Technical Grade	All	Mobil MRID #00003518	No
163.61-8(2)	Odor	Yes	Technical Grade	All	Mobil MRID #00003518	No
163.61-8(3)	Melting Point	Yes	Technical Grade	All	Mobil MRID #00003518	No
163.61-8(4)	Solubility	Yes	Technical Grade	Partial[1/]	Mobil MRID #00003518	Yes/8 mos.
163.61-8(5)	Stability	Yes	Technical Grade	All	Mobil MRID #0003518	No
163.61-8(6)	Octanol/water Partition coefficent	Yes	Technical Grade	No		Yes/8 mos.
163.61-8(7)	Physical State	Yes	Technical Grade	All	Mobil MRID #0003518	No

1/ The Proposed Guidelines require that the solubility be reported preferably in g/100 ml of solvent at 20°C or in other terms as ppm. The solubility was reported in percentages without giving the basis on which these percentages were calculated. Therefore, additional data are required.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (cont.)

Bifenox Product-Chemistry (See Chapter IV)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-8(8)	Density or Specific Gravity	Yes	Technical Grade	No		Yes/8 mos.
163.61-8(9)	Boiling Point	No[1/]				
163.61-8(10)	Vapor Pressure	Yes	Technical Grade	All	Mobil MRID #00003518	No
163.61-8(11)	pH	Yes	Technical Grade	No		Yes/8 mos.

1/ Not applicable to a solid.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Environmental Fate (See Chapter V)
Generic Data Requirements[1/]

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.62-7(b)	Hydrolysis	Yes	See Footnote 2	Partial[3/]	Lee, Metcalf, Hsu 1976 MRID #05002741	Yes/24 mos.
163.62-7(c)	Photodegradation	Yes	See Footnote 2	No		Yes/24 mos.
163.62-8(b)	Aerobic soil metabolism	Yes	See Footnote 2	Partial[4/]	Ohyama, Kuwatsuka, 1975 MRID #05005107 Mobil MRID #00003427 Mobil, 1972 #00003428 Mobil, 1976 #00003358	Yes/24 mos.
163.62-8(c)	Anaerobic soil metabolism	No				
163.62-8(d)	Anaerobic aquatic metabolism	Yes	See Footnote 2	No		Yes/24 mos.
163.62-8(e)	Aerobic aquatic metabolism	Yes	See Footnote 2	No		Yes/24 mos.

1/ Data requirements apply to manufacturing-use and end-use products.
2/ Radio-labelled analytical grade or non-radio-labelled technical.
3/ The formation of transformation products by hydrolysis could not be distinguished from other chemical or biological means because the study was not conducted under controlled laboratory conditions in the dark.
4/ All data specified in section 163.62-8(b) of the Guidelines for aerobic soil metabolism are needed to assess the metabolism of bifenox in soil.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Environmental Fate (See Chapter V)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.62-8(f)	Microbial metabolism					
	(2) effects of microbes on pesticides	Yes[1/]		No		Reserved
	(3) effects of pesticides on microbes	Yes[1/]		No		Reserved

1/ The requirement for the submission of these data is currently being reserved pending the review and modification of the testing protocols.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Environmental Fate (See Chapter V)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.62-8(g)	Activated sludge metabolism	Yes[3/]		No		Reserved
163.62-9(b)	Leaching	Yes[4/]	See Footnote 1	Partial[5/]	Leather, Foy MRID #05002738	Yes/24 mos.
163.62-9(c)	Volatility	No				
163.62-9(d)	Adsorption/ desorption	Yes[6/]	See Footnote 1	No		Yes/24 mos.
163.62-9(e)	Water dispersal	Yes	See Footnote 2	No		Yes/24 mos.
163.62-10(b)	Terrestrial field dissipation					
	(1) Field & vegetable crop	Yes[4/]	See Footnote 2	No		Yes/24 mos.
	(2) Tree Fruit & nut crop uses	No				No
	(3) Pasture land uses	No				No
	(4) Domestic outdoor parks, ornamentals and turf uses	No				

1/ Radio-labelled analytical grade or non-radio-labelled technical.
2/ A representative formulated product.
3/ The requirement for the submission of these data is currently being reserved pending the review and modification of the testing protocols.
4/ For terrestrial noncrop uses, orchard crop uses, field-vegetable crop uses, and forestry uses, the mobility of the test substance and its degradates in soil shall be assessed either by soil thin layer caromatography, soil columns, or batca equilibrium (adsorption/ disorption) procedures.
5/ Only one study was used to test pesticide leaching. A minimum of four studies is required according to 163.62-9 of the guidelines. All specified data in 163.62-9(b) are needed to determine the susceptability of bifenox to leaching.
6/ For domestic outdoor uses, greenhouse uses, aquatic uses, and aquatic impact uses, the mobility of the test substance and its degradates in soil shall be assessed only by the batch equilibrium (adsorption/desorption) procedure.

Table 1 (Cont'd)

Bifenox Environmental Fate (See Chapter V)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
	(5) Rights of way, shelterbelts and related uses	No				
163.62-10(c)	Aquatic field dissipation					
	(1) Aquatic food crop uses	Yes	See Footnote 1	Partial[2/]	Mobil, 1973 MRID #00003461	Yes/24 mos.
	(2) Aquatic noncrop uses	No				
	(3) Specialized aquatic uses	No				
163.62-10(d)	Terrestrial/ aquatic (forest) field dissipation	No				
163.62-10(e)	Aquatic impact uses					
	(1) Direct discharge	No				
	(2) Indirect discharge	No				
	(3) Wastewater treatment	No				

1/ Each formulated end-use product.
2/ All data specified in Section 163.62-10(c) of the Guidelines are needed to determine the dissipation rate of bifenox of each formulated end-use product in the aquatic environment.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Environmental Fate (See Chapter V)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.62-10(f)	Combination and tank mix field dissipation	No 1/				
163.62-10(g)	Long term field dissipation study	Yes 8/	See Footnote 3	No		Reserved
163.62-11(b)	Accumulation in rotational crops	Yes	See Footnote 2	Partial 6/	Leather/Foy, 1977 MRID #05002738	Yes/ 24 mos.
163.62-11(c)	Accumulation in irrigated crops	Yes	See Footnote 3	No		Yes/24 mos.
163.62-11(d)	Fish accumulation	Yes	See Footnote 4	Partial 7/	Lee, Metacalf Hsu, 1975 MRID #05002741	Yes/24 mos.
163.62-11(e)	Special studies accumulation in aquatic noncrop uses	No				
163.62-13	Disposal and storage	Yes 5/		No		Reserved

1/ Not applicable to single active ingredient standard.
2/ Radio-labelled analytical grade (if residues are found, then a field test using a representative formulation).
3/ A representative formulated product.
4/ Radio-labelled analytical grade or non-radio-labelled technical.
5/ The requirement for the submission of these data is currently being reserved pending the review and modification of the testing protocols.
6/ Additional data are needed in greenhouse studies using crops other than oats to determine if bifenox residues will accumulate in rotational crops and additional field data are needed on the accumulation of bifenox in oats.
7/ Additional studies using other recommended species of fish, a flow-through exposure system, more extensive sampling, and a depuration period are needed to properly evaluate the environmental effect of bifenox on fish.
8/ The requirement for submission of these data is reserved pending evaluation of terrestrial and aquatic field data.

Table 1 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.81-1	Acute Oral Toxicity	Yes	Technical Grade	No		Yes/8 Mos.
163.81-2	Acute Dermal Toxicity	Yes	Technical Grade	No		Yes/8 Mos.
163.81-3	Acute Inhalation	Yes	Technical Grade	No		Yes/8 Mos.
163.81-4	Primary Eye Irritation	Yes	Technical Grade	No		Yes/8 Mos.
163.81-5	Primary Dermal Irritation	Yes	Technical Grade	No		Yes/8 Mos.
163.81-6	Dermal Sensitization	Yes	Technical Grade	No		Yes/8 Mos.
163.81-7	Acute Neurotoxicity	No[1/]	Technical Grade	No		No

1/ Acute delayed neurotoxicity data are not required because bifenox is not expected to cause esterase depression nor is it structurally related to a compound that induces neutopathy or delayed neurotoxicity.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Toxicology (See Chapter VI)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.82-1	Subchronic Oral Toxicity	Yes[1/]	Technical Grade			Yes/24 mons.
163.82-2	Subchronic 21-day Dermal Toxicity	Yes[2/]	Technical Grade			Yes/24 mos.
163.82-3	Subchronic 90-day Dermal Toxicity	No	Technical Grade			No
163.82-4	Subchronic Inhalation Toxicity	No[3/]	Technical Grade			No
163.82-5	Subchronic Neurotoxicity	No[4/]	Technical Grade			No

1/ This test is required for bifenox because its use requires a tolerance.
2/ This test is required for bifenox because its use may result in repeated skin contact.
3/ Acute inhalation data were not available. A subchronic test may be required pending results of an acute inhalation test.
4/ Acute delayed neurotoxicity data are not required because bifenox is not expected to cause esterase depression, nor is it structurally related to a compound that induces neuropathy or delayed neurotoxicity.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.83-1	Chronic Feeding	Yes	Technical Grade	No[1/]		Yes
163.83-2	Oncogenicity	Yes	Technical Grade	No[1/]		Yes
163.83-3	Teratogenicity	Yes	Technical Grade	No[1/]		Yes
163.83-4	Reproduction	Yes	Technical Grade	No[1/]		Yes
163.84-2 through 4	Mutagenicity	Yes	Technical Grade	No[1/]		Yes
163.85-1	Metabolism	Yes	Technical Grade	No		Yes 24 mos.

1/ The submitted data are IBT data that are considered invalid for purposes of this standard. The Canadian government is validating IBT data for EPA. Consult with EPA Laboratory Audit Program prior to initiating studies.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)
Bifenox Residue Chemistry (See Chapter VII)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
—	Metabolism in in Plants	Yes	Technical Grade	All	Leather/Foy MRID #05007738 Leather~ MRID #05002878	No
—	Metabolism in Animals	Yes	Technical Grade	All	See Footnote 1	No
—	Analytical Methods	Yes	Technical Grade	All	See Footnote 2	No
—	Residue Data: Field Corn	Yes	Technical Grade	All	See Footnote 3	No
—	Residue Data: Rice	Yes	Technical Grade	All	See Footnote 3	No
—	Residue Data: Sorghum, Grain and Fodder	Yes	Technical Grade	All	See Footnote 3	No
—	Residue Data: Barley, Oats, and Wheat	Yes	Technical Grade	All	See Footnote 3	No
	Residue Data: Milk, Meat, and Eggs	Yes	Technical Grade	All	MRID #00003478	No
	Storage Stability	Yes	Technical Grade	All	MRID #00003523	No

1/ This requirement is satisfied by the following studies: MRID 05005107, 05002738, 05002879.
2/ This requirement is satisfied by the following studies: MRID 00003522, 05005105, 00003413.
3/ This requirement is satisfied by the following studies: MRID 00003432, 00003478, 00003521, 00003435, 00003536, 00004175, 00003434, 00003433.

These data requirements are current as of June, 1981. Refer to guidance package for uplated requirements.

Table 1 (Cont'd)
Bifenox Ecological Effects (See Chapter VIII)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.72-1	Fish Acute LC_{50}	Yes	Technical Grade	No[2]		Yes/8 mos.
163.72-2	Acute Toxicity to Aquatic Invertebrates	Yes	Technical Grade	No[3]		Yes/8 mos.
163.72-3	Acute Toxicity to Estaurine and Marine Organisms	Yes	Technical Grade	No[4]		Yes/8 mos.
163.72-4	Embryolarvae and Life-cycle Studies of Fish and Aquatic Invertebrates	No[1]				Reserved
163.72-5	Aquatic Organism Toxicity and Residue Studies	No[1]				Reserved
163.72-6	Simulated or Actual Field Testing for Aquatic Organisms	No[1]				Reserved

1/ The requirement for submission of these data is currently reserved pending the results of the following tests: Fish Acute LC_{50}, Acute Toxicity to Aquatic Invertebrates.
2/ Six studies (contained in 3 references) were evaluated and reviewed and found to be unacceptable for use in establishing the acute toxicity of bifenox to freshwater fish (warmwater or coldwater).
3/ The guideline requirements for an LD_{50} on aquatic invertebrates with technical bifenox have not been satisfied.
4/ No studies were submitted on technical bifenox. The guideline requirements for an LC_{50} on estaurine and marine organisms have not been satisfied.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)

Bifenox Ecological Effects (See Chapter VIII)
Generic Data Requirements

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.71-1	Avian Single-Dose Oral LD_{50}	Yes	Technical Grade	No 1/		Yes/8 mos.
163.71-2	Avian Dietary LC_{50}	Yes	Technical Grade	No 1/		Yes/8 mos.
163.71-3	Mammalian Acute Toxicity	No				No
163.71-4	Avian Reproduction	No				No
163.71-5	Simulated and Actual Field Testing for Mammals and Birds	No				No

1/ The submitted data are IBT data and are considered invalid for purposes of this standard. The Canadian government is validating IBT data for EPA. Consult with EPA Laboratory Audit Program prior to initiating studies.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 1 (Cont'd)

Bifenox Ecological Effects (See Chapter VIII)
Generic Data Requirements for Bifenox by Composition Characteristics

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.122-1	Seed Germination	Yes		No		Yes[1/]
163.122-1	Vegetative Vigor	Yes		Yes	See Footnote 2	No
163.122-2	Aquatic Macrophytes	Yes		No		Yes[1/]
163.122-2	Algae	Yes		No		Yes[1/]

1/ Data requirements must be fulfilled within 2 years using technical bifenox.

2/ This requirement is satisfied by the following studies in aggregate: 00003364, 00003379, 00003381, 00003384, 00003387, 00003402, 00003404, 00003408, 00003410, 00003415, 00003450, 00003453, 00003462, 00003463, 00003466, 00003471, 00003472, 00003475, 00003482, 00003483, 00003484, 00003494, 00003499, 00003508, 00003520, 00003527, 00003533, 00003544, 00003546, 00003547, 00003550, 00003551, 00003553, 00003555, 00003558, 00003561, 00003571, 00004176, 00004181, 00004183, 00004185, 00004186, 00004189, 00004192, 00004194, 00004202, 00004986, 00004988, 00004989, and 05004454.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 2
Product Chemistry (See Chapter IV)
Bifenox Product-Specific Data Requirements for Manufacturing-use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-3	Product Identity and Disclosure of Ingredients	Yes*	MUP	All	Mobil MRID #00003518	No
163.61-4	Description of Manufacturing Process	Yes*	MUP	All	Mobil MRID #00003518	No
163.61-5	Discussion of Formation of Unint. Ingredients	Yes*	MUP	All	Footnote 2/	No
163.61-6	Declaration and Certification of Ingredient Limits	Yes*	MUP	All	Footnote 2/	No
163.61-7	Product Analytical Methods and Data	Yes*	MUP	Partial 1/	Melnizek, 1972 MRID #00003522	Yes/8 mos.
163.61-8(7)	Physical State	Yes	MUP	All	Mobil MRID #00003518	No
163.61-8(8)	Density or Specific Gravity	Yes	MUP	No		Yes/8 mos.
163.61-8(9)	Boiling Point	No				

* These data requirements for the manufacturing-use product are satisfied by the requirements for the technical. Refer to Chapter IV Product Chemistry.

1/ Analytical methodology are needed to detect and measure any ingredient or impurity in the intentionally-added inert ingredients.

2/ The data was obtained from the Confidential Statement of Formula.

These data requirements are current as of June, 1981. Refer to guidance

Table 2 (Cont'd)

Product Chemistry (See Chapter IV)
Bifenox Product-Specific Data Requirements for Manufacturing-use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-8(11)	pH	Yes	MUP	No		Yes/8 mos.
163.61-8(12)	Storage Stability	Yes	MUP	All	Mobil MRID #00003523	No
163.61-8(13)	Flammability	Yes	MUP	No		Yes/8 mos.
163.61-8(14)	Oxidizing or Reducing Action	Yes	MUP	No		Yes/8 mos.
163.61-8(15)	Explosiveness	Yes	MUP	No		Yes/8 mos.
163.61-8(16)	Miscibility	Yes[1/]	MUP			No
163.61-8(17)	Viscosity	Yes[2/]	MUP			No
163.61-8(18)	Corrosion Characteristics	Yes	MUP	No		Yes/8 mos.

1/ EC liquids only.
2/ Liquids only.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 2 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Product-Specific Data Requirements for Manufacturing-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.81-1	Acute Oral Toxicity	Yes*	MUP	No		Yes/8 mos.
163.81-2	Acute Dermal Toxicity	Yes*	MUP	No		Yes/8 mos.
163.81-3	Acute Inhalation Toxicity	Yes*	MUP	No		Yes/8 mos.
163.81-4	Primary Eye Irritation	Yes*	MUP	No		Yes/8 mos.
163.81-5	Primary Dermal Irritation	Yes *	MUP	No		Yes/8 mos.
163.81-6	Dermal Sensitization	Yes*	MUP	No		Yes/8 mos.

* The technical and the manufacturing-use have been determined to be the same. These requirements may be filled by data required in Table 1 entitled "Bifenox Toxicology Generic Data Requirements."

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3
Product Chemistry (See Chapter IV)
Product-Specific Data Requirements for End-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-3	Product Identity and Disclosure of Ingredients	Yes	Each product	All	Mobil MRID #00003519 2/	No
163.61-4	Description of Manufacturing Process	Yes	Each product	All	Mobil MRID #00003519 2/	No
163.61-5	Discussion of Formation of Unint. Ingredients	Yes	Each product	All	Mobil MRID #00003519 2/	No
163.61-6	Declaration and Certification of Ingredient Limits	Yes	Each product	No		Yes/8 mos.
163.61-7	Product Analytical Method and Data	Yes	Each product	No		Yes/8 mos.
163.61-8(1)	Color	Yes	Each product	No		Yes/8 mos.
163.61-8(2)	Odor	Yes	Each product	No		Yes/8 mos.
163.61-8(7)	Physical State	Yes	Each product	All	Mobil MRID #00003523	No
163.61-8(8)	Density or Specific Gravity	Yes	Each product	Partial 1/	Mobil MRID 00003523	Yes/8 mos.
163.61-8(9)	Boiling Point	No				

1/ Data requirements have been satified for the EC, 75% wettable powder and flowable. Data are required for the 80% wettable powder.
2/ Some of the data was obtained from the Confidential Statement of Ingredients.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3 (Cont'd)

Bifenox Product Chemistry (See Chapter IV)
Product-Specific Data Requirements for End-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
163.61-8(10)	Vapor Pressure	Yes	Each product	All	See Footnote 4	No
163.61-8(11)	pH	Yes	Each product[1/]	No	See Footnote 4	Yes/8 mos.
163.61-8(12)	Storage Stability	Yes	Each product	All	MRID 00003523	No
163.61-8(13)	Flammability	Yes	Each product[2/]	No	MRID 00003523	Yes/8 mos.
163.61-8(14)	Oxidizing or Reducing Action	Yes	Each product	No		Yes/8 mos.
163.61-8(15)	Explosiveness	Yes	Each product	No		Yes/8 mos.
163.61-8(16)	Miscibility	Yes	Each product	Partial*	See Footnote[4/]	Yes/8 mos.
163.61-8(17)	Viscosity	Yes	Each product[3/]	No	See Footnote 4	Yes/8 mos.
163.61-8(18)	Corrosion Characteristics	Yes	Each product	Partial**	See Footnote 4	Yes/8 mos.

* Data are require on emulsifiable liquids only. Data is needed on the EC.
** Data requirements have been satisfied for the EC. Data are required on the 4 flowable and WP.
1/ Data requirements have been satisfied for the EC and flowable. Data are required on the 75 and 80% wettable powder.
2/ Data requirements have been satisfied for the EC and WP. Additional data are required on the 4 flowable.
3/ Data requirements have been satisfied for the EC and WP. Additional data are required on the 4 flowable.
4/ The data was obtained from the Confidential Statement of Formula.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Product-Specific Data Requirements for End-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
1. Wettable Powder (80%)						
163.81-1	Acute Oral Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-2	Acute Dermal Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-3	Acute Inhalation Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-4	Primary Eye Irritation	Yes	Each Product 1/	No		Yes/8 mos.
163.81-5	Primary Dermal Irritation	Yes	Each Product 1/	No		Yes/8 mos.
163.81-6	Dermal Sensitization	Yes	Each Product 1/	No		Yes/8 mos.

1/ Each product or substantially similar product.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Product-Specific Data Requirements for End-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
2. Emulsifiable Concentrate (21%)						
163.81-1	Acute Oral Toxicity	Yes	Each product[1]	No		Yes/8 mos.
163.81-2	Acute Dermal Toxicity	Yes	Each product[1]	No		Yes/8 mos.
163.81-3	Acute Inhalation Toxicity	Yes	Each product[1]	No		Yes/8 mos.
163.81-4	Primary Eye Irritation	Yes	Each product[1]	No		Yes/8 mos.
163.81-5	Primary Dermal Irritation	Yes	Each product[1]	No		Yes/8 mos.
163.81-6	Dermal Sensitization	Yes	Each product[1]	No		Yes/8 mos.

1/ Each product or substantially similar product.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3 (Cont'd)

Bifenox Toxicology (See Chapter VI)
Product-Specific Data Requirements for End-Use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement .	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
3. Flowable (40%)						
163.81-1	Acute Oral Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-2	Acute Dermal Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-3	Acute Inhalation Toxicity	Yes	Each Product 1/	No		Yes/8 mos.
163.81-4	Primary Eye Irritation	Yes	Each Product 1/	No		Yes/8 mos.
163.81-5	Primary Dermal Irritation	Yes	Each Product 1/	No		Yes/8 mos.
163.81-6	Dermal Sensitization	Yes	Each Product 1/	No		Yes/8 mos.

1/ Each product or substantially similar product.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

Table 3 (Cont'd)
Ecological Effects (See Chapter VIII) Product-Specific
Data Requirements for End-use Products

Guidelines Citation	Name of Test	Are Data Required	Composition	Does EPA Have Data to Partially or totally Satisfy this Requirement	Bibliographic Citation	Must Additional Data be Submitted under FIFRA 3(c)(2)(B)? If so, months allowed for submission from published date of standard
1. Wettable Powder (80%)						
163.72-1	Fish Acute LC_{50}	Yes	Each product	No[1/]		Yes/8 mos.
163.72-2	Acute Toxicity to Aquatic Invertebrates	Yes	Each product	No[1/]		Yes/8 mos.
163.72-3	Acute Toxicity to Estaurine and Marine Organisms	Yes	Each product	No		Yes/8 mos.
2. Emulsifiable Concentrate (21%)						
163.72-1	Fish Acute LC_{50}	Yes	Each product	No[1/]		Yes/8 mos.
163.72-2	Acute Toxicity to Aquatic Invertebrates	Yes	Each product	No		Yes/8 mos.
163.72-3	Acute Toxicity to Estaurine and Marine Organisms	Yes	Each product	No[1/]		Yes/8 mos.
3. Flowable (40%)						
163.72-1	Fish Acute LC_{50}	Yes	Each product	No[2/]		Yes/8 mos.
163.72-2	Acute Toxicity to Aquatic Invertebrates	Yes	Each product	Yes	LeBlanc , 1976 MRID #00003366	No
163.72-3	Acute Toxicity to Estaurine and Marine Organisms	Yes	Each product	Partial[3/]	Hollister, 1976 MRID 00003367	Yes/8 mos.

1/ The direct application of bifenox to water (rice use) poses a potential hazard to aquatic organisms. These data are needed to assess this potential hazard.
2/ Additional acute toxicity data are needed on the 40% flowable product.
3/ The 96-hour acute toxicity on pink shrimp was submitted (LC_{50} = 2.6 ppm. However, an LC_{50} study on an estuarine fish, and a 48-hour oyster embryolarva study are still required.

These data requirements are current as of June, 1981. Refer to guidance package for updated requirements.

IV. PRODUCT CHEMISTRY

A. INTRODUCTION

FIFRA 3(c)(2)(A) requires the Agency to establish guidelines for registering pesticides in the United States. The Agency requires registrants to provide quantitative data on all unintentional ingredients which are equal to or greater than 0.1% of the product by weight.

To establish the composition of products proposed for registration, the Agency requires data and information not only on the manufacturing and formulation processes, but also a discussion on the formation of manufacturing impurities and other product ingredients, intentional and unintentional. Further, to assure that the composition of the product as marketed will not vary from the composition evaluated at the time of registration, applicants are required to submit a statement certifying upper and lower composition limits for the added ingredients and upper limits only for some unintentional ingredients. Guidelines Subpart D (43 FR 29696) suggests specific precision limits for ingredients based on the percentage of ingredient and the standard deviation of the analytical method.

In addition to the data on product composition, the Agency also requires data to establish the physical and chemical properties of both the pesticide active ingredient and its formulations. For example, data are needed concerning the identity and physical state of the active ingredient (e.g., melting point data, ambient vapor pressure and solubility). Data are also required on the properties of the formulated product to establish labeling cautions (e.g., flammability, corrosivity and storage stability). The agency uses these data to characterize each pesticide and to determine its environmental and health hazards.

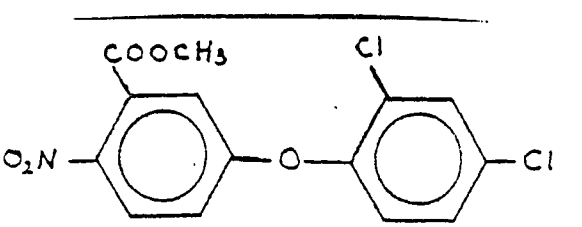
B. PRODUCT CHEMISTRY - MANUFACTURING-USE BIFENOX

Product Chemistry Profile

1. Chemical Identity

Bifenox is the accepted common name for methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate. It is also known by the trade name Modown®. Other chemical names include: benzoic acid, 5-(2,4-dichlorophenoxy)-2-nitro-, methyl ester (8, 9 CI), and 2,4-Dichlorophenyl 3'-methoxycarbonyl-4'-nitrophenyl ether.

The chemical structure is:



The chemical formula for bifenox is $C_{14}H_9Cl_2NO_5$ and the molecular weight is 342.12. The Chemical Abstracts Registry (CAS) number for bifenox is 42576-02-3 (formerly 12680-11-4), and the EPA Shaughnessy Number is 104301.

The common name bifenox will be used routinely in this registration standard in lieu of trade and other names.

2. Manufacturing Process

Bifenox can be made by the reaction of potassium 2,4-dichlorophenolate with methyl 5-chloro-2-nitrobenzoate (Martin and Worthing, MRID 05000993). Chemicals of the type of bifenox "are readily prepared by the Ullman (sic) ether synthesis reaction between the alkali metal (Na,K) salt of a halophenol and a 5-halo (Cl or Br)-2-nitrobenzoic acid or an ester, amide, or salt thereof. The 5-halo-2-nitrobenzoic acid is readily prepared by nitrating an m-halo-toluene followed by oxidation of the methyl group by well known procedures" (Sittig, 1977). The company has submitted data on its manufacturing process. These data are included in Confidential Appendix A.

The Farms Chemical Handbook (1980) lists the Mobil Chemical Company as the only basic producer of bifenox in the United States.

3. Formation of Unintentional Impurities

Data identifying impurities in the technical product have been submitted but cannot be discussed because of its confidentiality. These data are found in Confidential Appendix A.

4. Active Ingredient Limits in Pesticide Products

Manufacturing-Use Bifenox

The active ingredient limits for technical bifenox contains a minimum of 96% of the active ingredient, methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate. Depending upon the manufacturing process, up to 4% related impurities can be expected. Because of its confidentiality, submitted data identifying impurities in the technical product and a discussion of the specific procedures, equipment and manufacturing conditions required for the commercial production of bifenox will not be discussed or included in this Standard.

End Use Products

The intentionally added inert ingredients of the end use products are exempt from the requirements of a tolerance under 40 CFR 180.1001 (c) and (d). These data are to be found in Confidential Appendix B.

5. Product Analytical Method

The analytical method (Mobil Chemical Method 69-72) is considered an adequate method for bifenox and is in compliance with section 163.61-7(a)(3) of the Proposed Guidelines. However, there are no methods for the unintentional ingredients.

C. PHYSICAL AND CHEMICAL PROPERTIES

1. Available data from the open literature and registrant submissions on the physical/chemical properties of technical bifenox are:

Color	Pale yellow to tan	(00003518)
Odor	Faint	(00003518)
Melting point	84-86°C	(00003518)
Physical state	Crystalline solid	(00003518)
Vapor pressure	2.4×10^{-6} mm Hg at 30°C	(00003518)
Stability	Heat stable to 175°C, loses weight to 285°C, total decomposition occurs above 290°C	(00003518)
Solubility		(00003518)

Solvent	Approximate % (at 20°C)
Corn Oil	3-4
Methanol	2
Xylene	30
Methyl Isoamyl Ketone	25
Methyl Chloride	50
Pine Oil	2-3
Chlorobenzene	35-40
Ethylene Dichloride	40
Methyl Methacrylate	35-40
Kerosene, other aliphatics	<1
Mesityl Oxide	40-50
Isophorone	20-40
Cyclohexanone	40-50
Diacetone alcohol	16-20
1,4-Dioxane	10-15
Water	0.36 ppm

2. The following physical/chemical properties for manufacturing-use bifenox are:

Physical state	Crystalline solid	(00003518)
Storage stability	Technical bifenox stored at 20-30°C for 52 weeks showed no loss of active ingredient	(00003523)

3. Available data on the physical/chemical properties on the end-use products are:

80% Wettable Powder		
Physical state	Solid	(00003523)
75% Wettable Powder		
Physical state	Solid	(00003523)
Density	24 lbs./cu.ft.	
4 Flowable		
Physical state	Liquid	(00003523)
Density	10 lbs./gal.	
pH	7	
Flash point	greater than 200	
Emulsifiable Concentrate		
Physical state	Liquid	(00003523)
Density	9.63 lbs./gal.	
Flammability	94°F (TOC)	
Viscosity	2.03 cp at 25°C	
Storage stability	The formulation is stable for 12 weeks at 50°C	(00003523)
Corrosion Characteristics	Not corrosive to stainless steel or aluminum, but corrosive to the extent of 0.8 mils/year to carbon steel, and 0.6 mils/year to brass	

D. SUMMARY OF DATA GAPS

1. Technical Bifenox

The data gaps for technical bifenox are solubility, octanol/water partition coefficient, density or specific gravity and pH.

2. Manufacturing-Use Bifenox

The data gaps for manufacturing-use bifenox are product analytical methods, density or specific gravity, pH, flammability, oxidizing or reducing action, explosiveness, and corrosion characteristics.

3. End Use Products

The data gaps for the end use products are color, odor, density or specific gravity (80 WP only), pH (75 and 80% WP), flammability (4F), oxidizing or reducing action, explosiveness, miscibility (EC only), viscosity (4F) and corrosion characteristics (4F, WP).

In addition, the following will be required for each product: a description of analytical methods for the determination of each identified impurity associated with the technical product; declaration and certification of the upper and lower limits for each active ingredient and intentionally added inert ingredients, and the upper limit of each impurity, reaction and degradation products based on representative samples.

V. ENVIRONMENTAL FATE

A. USE PROFILE

Bifenox is a selective herbicide used in preemergence or postemergence treatments to control many annual broadleaf and certain grass weeds. Registered use sites include soybeans, rice, grain sorghum, field corn, wheat, and forest tree nursery seedbeds.

Bifenox apparently acts by inhibition of photosynthesis or plant respiration. At recommended rates, it is herbicidally active for 6 to 8 weeks in the soil. All formulations are applied in a water carrier without additional sufactants at volumes of 10 to 50 gallons per acre, depending on crop, target weeds, and method of application.

Principal target weeds in rice fields include annual sedge, barnyardgrass, dayflower, ducksalad, redstem, hemp sesbania, sprangletop, and water hyssop. Target weeds in other sites include jimsonweed, lambsquarters, pigweed, smartweed, velvetleaf, morningglory, and teaweed. Bifenox is seldom used for control of hard-to-kill perennial or woody weeds.

There are currently five bifenox formulations, including the technical product. All are single active ingredient formulations. They include two wettable powders containing 75% and 80% active ingredient, a 40% flowable concentrate, and a 21% emulsifiable concentrate. Currently, the most frequently used products are the 80% wettable powder and the 40% flowable concentrate.

More than one-half of current bifenox production is used on soybean, mostly in the Midwestern states. Treatments are either broadcast or applied in bands by ground rig boom sprayers. Bifenox is applied to soybeans mostly as a preemergence treatment, although some preplant treatments are made. Tank mixes with the herbicides alachlor or trifluralin are frequently used.

About 25% to 30% of bifenox production is used for treatment of rice in the South. Both preemergence and postemergence treatments are usually applied by air, although preemergence treatments are occasionally broadcast by ground rig booms. Postemergence treatments are usually tank-mixed with the herbicide propanil, while preemergence treatment is done with bifenox alone.

A small portion of bifenox production is used on field corn and grain sorghum in the Midwest. It is applied to these sites as a preemergence broadcast treatment by ground rig booms. Bifenox may be tank-mixed with the herbicide propachlor for use on sorghum or with the herbicide alachlor for use on corn.

About 2% of bifenox production is used to control weeds in forest tree nursery seedbeds. Principal use areas are conifer plantations in the South and West. Bifenox is applied postemergence by ground rig boom sprayers to young conifer seedlings.

Bifenox, though registered for use on wheat, is not currently used on that crop. According to label instructions, bifenox should be applied as a postemergence broadcast treatment to wheat having from 2 to 4 leaves. Either aerial or ground application may be used.

Additional information about bifenox application on its registered use-sites is contained in Table 1.

B. ENVIRONMENTAL FATE - MANUFACTURING-USE BIFENOX

1. Environmental Fate Summary

Bifenox is hydrolyzed under acidic (pH 4.7) conditions to 5-(2',4'-dichlorophenoxy)-2-nitrobenzoic acid and methyl-5-(2',4'-dichlorophenoxy)anthranilate. Ten potential degradation products were identified that may be contaminants in the starting material, or the result of hydrolysis or photolysis. The products are:

3-Carboxymethyl-4-nitrophenol
3'-Hydroxy-4'-nitro-2,4-dichloro-diphenyl ether
3'-Carboxymethyl-4'-nitro-2,4-dichloro-6-hydroxy-diphenyl ether
3'-Carboxymethyl-4'-hydroxy-2,4-dichloro-diphenyl ether
3'-Carboxymethyl-4'-amino-2,4-dichloro-diphenyl ether
2,4-Dichlorophenol
p-Nitrophenol
3'-Hydroxy-4'-nitro-2-hydroxy-4-chloro-diphenyl ether
3'-Hydroxy-4'-amino-2,4-dihydroxy-diphenyl ether
Nitrofen
(Mobil 1976, MRID 00003543)

Laboratory data indicate that bifenox had a half-life in Anjyo (mineral soil, Kaolin), Tochigi (volcanic ash soil, allophane), and Nagano (mineral soil montmorillonite) soils of 2-4 days under flooded conditions and a half-life of 6 days under aerobic conditions. (Ohyama, Kuwatsuka, 1975, MRID 05005107)

TABLE 1 - Registered Application Rates of Bifenox

Site	Formulation	Application Method	Application rate[1] (lb. or oz. a.i.)
Soybeans	WP F EC*	Preplant or preemergence broadcast, band, or incorporate	1.2-2.0 lbs. A.I./A
Rice	WP F EC	Preemergence or Postemergence Broadcast	2.0-3.0 lbs. A.I./A[2/3]
Grain Sorghum	WP F	Preemergence Broadcast	1.5-2.0 lbs. A.I./A
Forest tree nursery seedbeds	WP F	Preemergence or	3.0 lbs. A.I./A
	EC	Postemergence after seedlings are 4 wks. old	3.0 lbs. A.I./A
Field Corn*	WP F	Preemergence broadcast	1.6-2.0 lbs. A.I./A
Wheat*	EC	Postemergence Broadcast	0.7-1.0 lb. A.I./A[2/3]

[1] In pounds of active ingredient per acre.

[2] Aerial

[3] Ground

*Not currently marketed for this site in the United States.

In sandy loam and loam soils the half-life of bifenox was 3-14 days. At 6 weeks after treatment, 0.06-0.11 ppm (4-11% of the chemical applied) remained in the sandy loam soils and 0.12-0.21 ppm (11-16% of the chemical aplied) remained in the loam soil. A metabolite [methyl-5-(2,4-dichlorophenoxy) anthranilate] was found in the sandy loam soil at a concentration of 0.12 ppm. These data indicate that bifenox will not present a persistence problem in soil; however, without field data, the true rate of bifenox soil dissipation cannot be determined (Mobil 1972, MRID 00003427, 28; 1978, MRID 00003358).

Data from a nitrification study indicate that bifenox at 31 ppm inhibits nitrification in clay soils for at least 60 days. This may be beneficial in rice fields since rice plants take up NH_4 instead of NO_3. However, 31 ppm is far in excess of the maximum recommended application rate of 1.5 ppm.

A sludge study shows that bifenox is degraded in sewage sludge with approximately two-thirds of the bifenox present in the effluent at zero time degrading in 4 hours (pseudo-first-order rate constant -0.26/hour). (Greer, 1978, MRID 05020066).

A study using a clay loam soil indicated that bifenox and two transformation products 5-(2',4'-dichlorophenoxy)-2-nitrobenzoic acid (a hydrolysis product) and 2,'4'-dichlorophenyl-4-nitrophenyl ether (nitrofen) will leach in soil to a depth of 40 centimeters. However, since the soil was eluted with the equivalent of 332 acre-inches of water, firm conclusions cannot be drawn from the data. (Leather and Foy, 1977, MRID #05002738)

Preliminary data from an aquatic field dissipation study conducted in a rice field treated with 2 or 4 lb/A show that bifenox residue levels decreased from 0.007 and 0.13 ppm, respectively, on the date the field was flooded (18 days after treatment) to nondetectable levels of less than 0.005 ppm at 7 days after flooding (25 days after treatment).

Mosquito fish placed in a model ecosystem 30 days after treatment with bifenox accumulated to 0.024 ppm of bifenox (accumulation factor 50) over a 3-day period. (Lee et at., 1976, MRID 05002741)

Bifenox was applied alone and in combination with alachlor, propanil, and propachlor to sandy loam and loam soils. When bifenox was applied alone, 79-96% of the compound dissipated from the sandy loam and loam soils within 6 weeks. Similar results (73-95% dissipation) were observed when bifenox was applied in combination with alachlor, propachlor, or propanil. Thus, the dissipation rate of bifenox in the environment is not expected to change when it is applied in combination with these compounds. (Mobil MRID 00003327, 3358).

Bifenox residues will accumulate in greenhouse-grown oats. Residues of [14C] bifenox in oats 310 days after treatment included 5-(2',4'-dichlorophenoxy)-2-nitrobenzoic acid, nitrofen, and 5-(2',4'-dichlorophenoxy)anthranilic acid. (Leather & Foy, 1977, MRID #05002738)

Although the data are insufficient to form a comprehensive profile of the fate of bifenox in the environment, it can be concluded that bifenox should not present a persistence problem in soil when used alone or in combination with alachlor, propachlor, propanil. The dissipation of bifenox in soil appears to be through hydrolysis to 5-(2',4'-dichlorophenoxy)-2-nitrobenzoic acid and methyl-5-(2',4'-dichlorophenoxy) anthranilate. However, a transformation product (2,4-dichlorophenyl-4-nitrophenyl ether, the herbicide nitrofen, appears to be a microbial degradation product of bifenox (based on the structural differences between nitrofen and bifenox). Therefore, microbial degradation must still be considered as a possible degradation pathway.

The impact of bifenox on the aquatic environment cannot be determined because the rate of hydrolysis is not known. In addition, the structures of the two hydrolysis products are similar to bifenox, which suggests that they may have similar influences on the environment.

C. EXPOSURE PROFILE

1. All Formulations

The greatest potential for exposure to bifenox occurs during mixing, loading, and spraying operations, but no data are available to estimate the degree of such exposure. Aerial applications may potentially expose humans, livestock and wildlife outside the application site via spray drift. A potential exposure to wildlife exists because of bifenox use on grains and to aquatic species because of use on rice. Exposure resulting from groundwater contamination is unlikely due to the fairly rapid soil metabolism of bifenox

and its low leaching potential. The potential for leaching of the degradation products cannot be assessed from available data. A bioaccumulation factor of 50 was reported in mosquito fish after 3 days in a static model ecosystem. No other bioaccumulation data are available.

The greatest potential for exposure of wettable powder formulations is respiratory, during opening and pouring when "puff back" can occur. Splashing during dilution, mixing, and loading may result in dermal or ocular exposure.

Potential dermal exposure of the flowable and emulsifiable concentate formulations is greatest during mixing and loading, when splashing may occur. Such exposure can be minimized by the use of gloves and protective clothing during mixing and loading.

D. SUMMARY OF DATA GAPS

The data gaps for this chemical are: hydrolysis studies, photolysis studies, aerobic soil metabolism studies, aerobic and anaerobic aquatic metabolism, leaching studies, adsorption/desorption studies, water dispersal studies, terrestrial field, aquatic dissipation studies, rotational and irrigated crop studies, and fish accumulation studies.

The data requiremnts for manufacturing-use bifenox and the end use products are the same. Refer to Chapter III, Table 1.

VI. TOXICOLOGY

The Proposed Guidelines for Registering Pesticides in the United States sets forth conditions under which specific data would be required to support the registration of a product, specifying the standards for acceptable testing.

Toxicity data needed to determine potential adverse toxicological effects to humans and domestic animals as a result of the use of bifenox were generated by Industrial Bio-Test Laboratories (IBT) or were not available to the Agency.

IBT was one of the laboratories audited jointly by the EPA and the Food and Drug Administration under the Agency's Laboratory Audit Program. The function of this program was to ensure the reliability and integrity of data supplied to the Agency by pesticide manufacturers for purposes of supporting pesticide registrations and tolerances. The audit of the IBT Laboratories revealed a number of questionable scientific practices which led the Agency to require raw data for purposes of reevaluating all IBT studies used in support of pesticide registrations and tolerances. Review of the IBT toxicology data base on bifenox currently is being conducted by the Canadian government. Under the Registration Standards Program, Agency policy provides that IBT studies which have not yet been reviewed are considered administratively invalid and will not be included in the Registration Standard document. Thus, in the absence of the Canadian validation and the lack of any other toxicology data on bifenox, a detailed assessment of the hazard of bifenox to man and the environment cannot be made.

The data requirements needed to evaluate the continued registration of bifenox products to which this standard applies are listed in Chapter III, Tables 1-3.

VII. RESIDUE CHEMISTRY

A. INTRODUCTION

This chapter of the Registration Standard is concerned only with those formulations containing a single active ingredient. Conclusions or implications derived from data on such formulations do not necessarily apply to those having mutiple active ingredient.

The use pattern and restrictions for the formulations (F, EC and WP) of bifenox are used primarily for pre-emergent and some post-emergent weed control. This chemical is said to be particularly effective against broadleaf weeds.

According to current labels, the following additional instructions and restrictions apply when end-use products are used:

1. Reduce dosage in proportion to band areas actually treated.

2. Pre-emergence applications are not incorporated in the soil.

3. Post-emergence applications are made when the first leaves appear.

4. Cover crops can be planted if not grazed.

Specifically for rice:

1. Do not apply to second rice crop in areas where double cropping is practiced.

2. Do not use in areas where crayfish farming is practiced.

3. Do not use water from treated rice fields to irrigate upland crops.

5. Do not use bifenox on rice grown in California.

Specifically for sorghum:

1. Do not use bifenox on sweet sorghum or sorghum sudan.

B. RESIDUE CHEMISTRY PROFILE

The absorption, translocation and metabolism in plants have been investigated thoroughly in rice, corn, soybeans, and other plants. The metabolism of bifenox is adequately understood to be via reduction and/or hydrolysis to the corresponding amine and/or acid, followed by cleavage of the ether linkage to form various phenols which are further degraded and/or "bound", probably as gylcoside conjugates. Degradates include 2,4-dichlorophenol and p-nitrophenol.

^{14}C- metabolism data from a study on soybeans indicate little or no translocation from the plant root. Maximum ^{14}C- activity in leaves, stems and beans had an absorptivity level of only 0.03 ppm in tracer studies of wheat and rice involving foliar sprays of ^{14}C- materials. At the use rate, low levels of <0.05 ppm were found. Bifenox was found to metabolize rapidly in the rice plants.

Studies with rats fed ^{14}C- tagged bifenox and dogs fed cold bifenox showed little tissue accumulation. Large amounts of degradation or metabolism products were found in the liquid and solid waste of the dogs. Bifenox is rapidly metabolized and almost totally eliminated. Radio tracer studies on rats showed 90% of bifenox is eliminated within 48 hours.

Residue data from various crops treated at use rate and in excess of use rate showed <0.05 ppm, the practical method sensitivity. Adequate methods are available for residue determination and for enforcement purposes.

Residue studies on corn, rice, sorghum, soybeans, barley, oats, and wheat show that bifenox residues do not exceed the established pesticide tolerance of 0.05 ppm.

Since there was no evidence of bifenox residues in the animal feed items at the practical sensitivity (0.05 ppm) of the method there is no reasonable expectation of residues in meat, milk, or poultry and eggs.

There is no report of any regulatory action taken by the Food and Drug Administration with respect to residues of bifenox.

All residue data submitted for bifenox were obtained by the use of Mobil Chemical Method 70-72. This method consists of acetonitrile extraction, hexane partitioning, clean-up on mixed Florisil/alumina/Florex AA-LMV column followed by sweep co-distillation, and measurement by GLC equipped with halogen-specific microcoulmetric detection. The Florex-LMV is presently substituted for the specific Florex-AA-LMV.

Mobil Chemical Method 70-72 is found to have adequate specificity and is judged satisfactory for enforcement of established tolerances.

Over 200 crop samples were analyzed for residues of bifenox, using Mobil Chemical Method 70-72, sensitive to 0.05 ppm of the chemical. Samples were obtained from herbicide tests in 17 states, in Canada, Nicaragua and the Phillipines, and represented product use under a wide variety of climatic and soil conditions.

C. SUMMARY OF DATA GAPS

Presently, all data requirements have been fulfilled. Refer to Chapter III, Table 1, of this Standard.

VIII. ECOLOGICAL EFFECTS

A. ECOLOGICAL EFFECTS PROFILE

1. Fish and Wildlife

Available data are insufficient to assess the toxicological effects of technical bifenox on freshwater fish (warmwater or coldwater), freshwater aquatic invertebrates, estuarine and marine organisms, and birds due to deviations from acceptable protocols.

Data submitted to the Agency for review to determine the toxicity of bifenox to birds are IBT data. These studies are considered administratively invalid and cannot be included in a Registration Standard.

The 40% flowable bifenox end-use product is moderately toxic to aquatic invertebrates. The 48 hour acute LC_{50} for daphnia was 1.8 mg/L and the 96 hour LC_{50} for pink shrimp was 2.6 ppm (LeBlanc 1976, MRID 00003366).

Environmental fate data, chronic fish (fresh and estuarine) and/or marine and freshwater invertebrates studies may be required after review of the above acute toxicity studies on technical bifenox.

2. Plants - Phytotoxicity

Emulsifiable Concentrate

Available data concerning the phytotoxic effects of bifenox emulsifiable concentrate on various crops indicate that the no-effect levels for post-emergence application to barley, oats, and wheat varied from less than .5 to 1 lb. ai/A. The no-effect level for postemergent application to rice was less than 1 lb. ai/A. The no-effect levels for pre-emergence application to corn and rice varied from less than 2 to 2.5 lb. ai/A. Sorghum suffered 10% injury following pre-emergence applications of 1.5 to 2 lb. ai/A and the no-effect level for a similar application to soybeans was 1 to 2 lb. ai/A.

Flowable

The no-effect level for pre-plant incorporation (PPI) of flowable bifenox to corn, sorghum, and soybeans, wheat, and oats was less than 2 lb. ai/A. At 2 lb. ai/A PPI, alfalfa was damaged 65% and clover 45%. The no-effect level to rice for a pre-emergence application was less than 2.5 lb. ai/A and less than 2 lb. ai/A for a post-emergence application. Pre-emergence applications of 1.5 to 2 lb. ai/A resulted in a 10% injury to sorghum or soybeans, although some soybean tests resulted in damage at rates as low as 0.5 lb. ai/A. A post-emergence application of 1 lb. ai/A has no effect on wheat.

Granular

Although the 10% granular dust is no longer manufactured, a study showed that a 3 lb. ai/A post-emergence application resulted in a 10% injury to rice.

Wettable Powder

The no-effect level for pre-emergence application of wettable powder bifenox to corn or sorghum was 1.5 lb. ai/A and varied from less than 1.6 to 3.75 lb. ai/A for rice. The no-effect level for pre-emergence treatment on soybeans varied from less than 1 to 2 lb. ai/A. Postemergence application of 1 lb. ai/A caused no injury to wheat and 1.5 lb. ai/A caused no injury to black walnut or white pine, but the no-effect level for a similar application to tulip poplar was less than 0.75 lb. The no-effect levels for preplant incorporation treatment were 2 lbs. ai/A for wheat and less than 2 lbs. for oats, sorghum, soybeans and corn. Clover and alfalfa suffered up to 65% damage with a PPI of 2 lb. ai/A. The no-effect level for tobacco PPI varied from less than 1.5 to 6.1 ai/A.

B. HAZARD ASSESSMENT

1. Manufacturing-use Bifenox

A hazard assessment is not conducted on the technical.

2. End Use Products

The available data are insufficient to assess the potential hazard of bifenox in the environment. The use of bifenox on such crops as rice exposes aquatic organisms to a potential hazard. Until acceptable toxicity studies on representative organisms and adequate fate data are submitted, a hazard assessment will not be conducted.

3. Non-Target Plant

Although sufficient information exists to characterize the hazard of bifenox to nontarget area crops, little information is available concerning the effects to other nontarget area plants. Bifenox is registered for use on corn, nursery seedbeds, rice, sorghum, soybeans, and wheat. Label rates for these crops allow for some temporary injury, but label cautions and the acceptable nature of the injury indicate that bifenox is not hazardous enough to these crops to be of concern. Ninety-five percent of bifenox is currently used on soybeans, rice and sorghum. It seems unlikely that large areas of nontarget plants would be exposed, although some drift to adjacent land strips resulting from normal application patterns would be expected.

The effect of bifenox on nontarget aquatic plant cannot be assessed at this time due to the lack of toxicity data.

C. SUMMARY OF DATA GAPS

1. Manufacturing-Use Bifenox

The ecological effects data gaps for technical bifenox are as follows: one avian single-dose oral LD_{50} (mallard duck or bobwhite quail); two avian dietary LC_{50} studies (mallard duck and bobwhite quail); two 96-hour LC_{50} tests on freshwater fish (rainbow trout and bluegill sunfish); one 48-hour acute toxicity study on an aquatic invertebrate (Daphnia magna); one estuarine and marine organism toxicity study (96-hour LC_{50} oyster embryolarva or a 96-hour EC_{50} shell deposition for molluscs).

The data requirements for a seed germination, aquatic marcrophytes and algae study on technical bifenox will be required within two years.

2. End Use Products

The ecological effects data gaps for the 80% wettable powder and the 21% emulsifiable concentrate are fish acute LC_{50} on one coldwater (rainbow trout) and one warmwater fish (bluegill sunfish), a 96-hour acute toxicity test on an aquatic invertebrate (Daphnia), estuarine and marine organisms toxicity study (preferably 96-hour LC_{50} for shrimp and fish, and either 48-hour LC_{50} for embryolarvae or 96-hour EC_{50} shell deposition for molluscs.

Additional acute toxicity testing on the 40% flowable is required on one coldwater fish (rainbow trout) and one warmwater fish (bluegill), and one estuarine fish. A 48-hour oyster embryolarvae study is also required.

The data requirements needed to evaluate the continued registration of bifenox products to which this Standard applies are listed in Chapter III, Tables 2 and 3.

GUIDE TO USE OF BIBLIOGRAPHY

Guide to Use of This Bibliography

1. Content of Bibliography. This bibliography contains citations of all the studies reviewed by EPA in arriving at the positions and conclusions stated elsewhere in this standard. The bibliography is divided into 3 sections: (1) citations that contributed information useful to the review of the chemical and considered to be part of the data base supporting registrations under the standard, (2) citations examined and judged to be inappropriate for use in developing the standard, and (3) standard reference material. Primary sources for studies in this bibliography has been the body of data submitted to EPA and its predecessor agencies in support of past regulatory decisions, and the published technical literature.

2. Units of Entry. The unit of entry in this bibligraphy is called a "study". In the case of published materials, this corresponds closely to an article. In the case of unpublished materials submitted to the agency, the Agency has sought to identify documents at a level parallel to a published article from within the typically larger volumes in which they were submitted. The resulting "studies" generally have a distinct title (or at least a single subject), can stand alone for purpose of review, and can be described with a conventional bibliographic citation. The Agency has attempted also to unite basic documents and commentaries upon them, treating them as a single study.

3. Identification of Entries. The entries in this bibliography are sorted by author, date of the document, and title. Each entry bears, to the left of the citation proper, an eight-digit numeric identifier. This number is unique to the citations, and should be used at any time specific reference is required. This number is called the "Master Record Identifier", or "MRID". It is not related to the six-digit "Accession Number" which has been used to identify volumes of submitted data; see paragraph 4(d)(4) below for a further explanation. In a few cases, entries added to the bibliography late in the review may be preceded by a nine-character temporary identifier. This is also to be used wheneer a specific reference is needed.

4. Form of the Entry. In addition to the Master Record Identifier (MRID:), each entry consists of a bibliographic citation containing standard elements followed, in the case of materials submitted to EPA, by a description of th earliest known submission. The bibliographic convention used reflect the standards for the American National Standards Institute (ANSI), expanded to provide for certain special needs. Some explanatory notes of specific elements follow:

   a. Author. Whenever the Agency could confidently identify one, the Agency has chosen to show a personal author. When no individual was identified, the Agency has shown an identificable laboratory or testing facility as author. As a last resort, the Agency has shown the first known submitter as author.

   b. Document Date. When the date appears as four digits with no question marks, the Agency took it directly from the document. When a four-digit date is followed by a question mark, the bibliographer deduced the date from evidence in the document. When the date appears as (19??), the Agency was unable to determine or estimate the date of the document.

   c. Title. This is the third element in the citation. In some cases it has been necessary for the Agency bibliographers to create or enhance a document title. Any such editorial insertions are contained between square brackets.

   d. Trailing Parenthesis. For studies submitted to us in the past, the trailing parenthesis include (in addition to any self-explanatory text) the following elements describing the earliest known submission.

      (1) Submission Date. Immediately following the word 'received' appears the date of the earliest known submission.

      (2) Administrative Number. The next element, immediately following the word 'under', is the registration number, experimental permit number, petition number, or other administrative number associated with the earliest known submission.

(3) Submitter. The third element is the submitter, following the phrase 'submitted by'. When authorship is defaulted to the submitter, this element is omitted.

(4) Volume Identification. The final element in the trailing parenthesis identifies the EPA accession number of the volume in which the original submission of the study appears. The six-digit accession number follows the symbol 'CDL', standing for "Company Data Library". This accession number is in turn followed by an alphabetic suffix which shows the relative position of the study within the volume. For example, within accession number 123456, the first study would be 123456-A; the second, 1234456-B; the 26th, 123456-Z; and the 27th 123456-AA.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003475	Arnold, W.E.; O'Neal, W.B. (1972) Small Grain Herbicide Screening. (Unpublished study received May 7, 1974 under 4G1505; prepared by South Dakota State Univ., Plant Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-AU)
000004189	Bayer, D.; Goss, J., comps. (1972) 1972 Rice Weed Control Report. (Unpublished study received May 7, 1974 under unknown admin. no.; prepared by Univ. of California--Davis, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:210036-U)
000003499	Boyles, M.; Banks, P.; Santelmann, P.W. (1976) Herbicides in Grain Sorghum: Report No. C 76-14. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Oklahoma State Univ. [of Agriculture and Applied Science], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-AG)
000003415	Collins, W.K. (1975) Field Evaluation Report on Tolerance of Flue-Cured Tobacco to Modown 80 WP. (Unpublished study received Jan 29, 1976 under 2224-EX-14; prepared by North Carolina State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224669-D)
000003555	Cornell University (1975) Herbicide Field Evaluation Trials on Field Crops, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Dept. of Agronomy, Weed Control Research, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-U)
000003462	Crane, L.E. (1973) Differential Response of Commerical Rice Varieties to Rates of Modown. (Unpublished study received May 7, 1974 under 4G1505; prepared by Chocolate Bayou Land and Water Co., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AF)
000003402	Delta Branch Experiment Station (1975) Weed Control in Soybeans with Experimental Formulations. (Unpublished study received Oct 8, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-J)
000003558	Doersch, R.E.; Weis, G.; Harvey, R.G. (1975) Herbicide Performance in Soybeans at Hancock. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-Y)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000004176	Eastin, E.F.; Stansel, J.W.; Flinchum, W.T.; Helpert, C.W.; Young, J. (1973) Herbicide Field Evaluations for Rice, 1973: Report No.7. (Unpublished study received May 7, 1974 under 4G1505; prepared by Texas A & M Univ., Agricultural Experiment Station, Agricultural Research & Extension Center at Beaumont, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AE)
000003546	Gorodenski, S. (1976) Mobil Modown Soybeans. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Chemonics Industries, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-B)
000003494	Gossett, B.J. (1975) Weed Control Research. (Unpublisned study received Mar 9, 1977 under 2224-EX-10; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-S)
000003408	Harvey, R.G.; Jacques, G.L. (1975) Soybean Herbicide Studies: Project No. 755. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by [Univ. of Wisconsin], Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-S)
000003381	Heikes, E. (1975) Grain Sorghum. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Colorado State Univ., [Dept. of] Weed Science-Botany, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-K)
000003561	Heikes, G. (1976) Linley Stum and Orville Johnson Farms Observations--September 21 & 22. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Colorado State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-AC)
000004202	Heikes, G. (1976) Winter Wheat: Linley Stum Farm, Towner, Colorado. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Colorado State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-AD)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID CITATION

000003367 Hollister, T.A.; Heitmuller, T. (1976) Acute Toxicity of Modown Herbicide 4 Flowable to Embryos of Eastern Oysters (Crassostrea virginica), to Pink Shrimp (Penaeus duorarum), to Fiddler Crabs (Uca pugilator), and to Sheepshead Minnows (Cyprinodon variegatus): Preliminary Toxicity Test Report. (Unpublished study received Jan 26, 1977 under 2224-53; prepared by EG&G, Bionomics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223017-D)

005004454 Holt, H.A.; Wickham, S.H.; Wichman, J.R. (1976) Forest nursery weed control results. Pages 175-177, In Proceedings, North Central Weed Control Conference. Vol. 31. Lincoln, Nebr.: North Central Weed Control Conference.

000003466 Isom, W.H. (1972) Weed Control Cereal Crops. (Unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of California--Riverside, Agricultural Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-AJ)

000003520 Isom, W.H. (1973) UCR Moreno: 1973 Pre-Emergence Herbicide Test--Cereal Crops. (Unpublished study including letter dated Aug 23, 1973 from W.H. Isom to John P. Lanigir, received May 7, 1974 under unknown admin. no.; prepared by Univ. of California--Riverside, Agricultural Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL.210036-AD)

000003450 Kapusta, ; Strieker, (1973) Grain Sorghum Weed Control Study. (Unpublished study received May 7, 1974 under 4G1505; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-K)

000003384 Kapusta, G.; Strieker, (1975) Table: Soybean Preplant Incorporated Herbicide Study, 1975. (Unpublished study including letter dated Sep 12, 1975 from G. Kapusta to Cooperator [Mobil Chemical Co.], received Dec 12, 1975 under unknown admin. no.; prepared by Southern Illinois Univ., Belleville Research Center, Industrial Chemicals, Richmond, Va.; CDL:223556-O)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003533	Kapusta, G.; Strieker, C.F. (1973) Late Season Application of Combination Herbicides for Soybean Weed Control. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232881-E)
000004181	Kapusta, G.; Strieker, C.F. (1975) Milo Herbicidal Weed Control Study, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-X)
000003483	Kapusta, G.; Strieker, C.F. (1975) 1975 Progress Report: Combination Herbicides for Corn Weed Control. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-D)
000003484	Kapusta, G.; Strieker, C.F. (1976) 1976 Progress Report: Preplant Incorporated and Preemergence Corn Herbicide Study. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-E)
000003550	Kapusta, G.; Strieker, C.F. (1976) 1976 Progress Report: Soybean Preemergence Herbicide Study. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-L)
000003471	Kushnak, G.; Dubbs, A. (1973) Herbicide Control of Field Gromwell in Winter Wheat. (Unpublisned study received May 7, 1974 under 4G1505; prepared by [Montana State Univ.], Central Montana Agricultural Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AQ)
005005105	Leather, G.R.; Foy, C.L. (1976) Differential absorption and distribution as a basis for the selectivity of bifenox. Pages 123, In Proceedings of the Northeastern Weed Science Society. Vol. 30. Painter, Va.: Virginia Truck and Ornamentals Research Station.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
005002738	Leather, G.R.; Foy, C.L. (1977) Metabolism of bifenox in soil and plants. Pesticide Biochemistry and Physiology 7(5):437-442.
005002879	Leather, G.R.; Foy, C.L. (1978) Differential absorption and distribution as a basis for the selectivity of bifenox. Weed Science 26(1):76-81.
000003366	LeBlanc, G.A. (1976) Acute Toxicity of Modown Herbicide 4 Flowable to Daphnia magna . (Unpublished study received Jan 26, 1977 under 2224-53; prepared by EG&G, Bionomics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228017-C)
005002741	Lee, A.H.; Lu, P.Y.; Metcalf, R.L.; Hsu, E.L. (1976) The environmental fate of three dichlorophenyl nitrophenyl ether herbicides in a rice paddy model ecosystem. Journal of Environmental Quality 5(4):482-486.
000003547	Leeper, C.D. (1975) Study of the Preplant, Preemergence and Post-emergence Soybean Herbicides. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Illinois, Northern Illinois Agronomy Research Center, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-G)
000003553	Meggitt, W.F. (1975) New Herbicides Applied Preemergence and Post-emergence for Corn and Soybeans, E. Lansing, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Michigan State Univ., [Dept. of Crop and Soil Sciences], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-Q)
000003522	Melnizek, W., Jr. (1972) Determination of MC-4379 by Gas Chromatography: Mobil Chemical Method 69-72. Method dated Jul 21, 1972. (Unpublished study received Nov 2, 1973 under 2224-EX-2; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:210083-C)
000003523	Mobil Chemical Company (19??) Basic Information--Formulations: [Modown]. (Unpublished study received Nov 2, 1973 under 2224-EX-2; CDL:210083-D)
000003519	Mobil Chemical Company (19??) Basic Manufacturing Process: [Modown]. (Unpublished study received Nov 2, 1973 under 2224-EX-2; CDL:210083-B)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID CITATION

000003518 Mobil Chemical Company (19??) Chemistry: [Modown]. (Unpublished study received Nov 2, 1973 under 2224-EX-2; CDL:210083-A)

000003478 Mobil Chemical Company (19??) Reasonable Grounds in Support of This Petition: Analytical Method and Crop Residue Determinations: [Bifenox]. (Unpublished study received May 1, 1974 under 4G1505; CDL:094586-A)

000003413 Mobil Chemical Company (19??) The Determination of Residues of Bifenox in Plant Materials: Mobil Chemical Method 70-72. (Unpublished study received Jan 29, 1976 under 2224-EX-14; CDL: 224669-B)

000003428 Mobil Chemical Company (1972) Soil Degradation of Bifenox and Propachlor Alone or in Combination. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-B)

000003461 Mobil Chemical Company (1973) Analysis of Water from Treated Rice Plots. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-X)

000003472 Mobil Chemical Company (1973) Experiment: Wheat Herbicide Screening. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-AR)

000004175 Mobil Chemical Company (1974) MC-4379 (Bifenox) Residues in Sorghum, Rice, Barley, Oats and Wheat. Summary of studies 093987-E through 093987-AM and 09398 -AO through 093987-AY. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-A)

000004986 Mobil Chemical Company (1975) Corn Results. (Unpublished study received on unknown date under 5H1738; CDL:238039-B)

000003434 Mobil Chemical Company (1975) Discussion and Summary: [Rice Analyses for Bifenox and Propanil]. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Bio/ dynamics, Inc.; CDL:095209-C)

000003427 Mobil Chemical Company (1972) Soil Degradation of Bifenox and Alachlor, Alone and in Combination. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003435	Mobil Chemical Company (1975) Discussion and Summary: [Small Grain Analyses for Bifenox]. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Bio/dynamics, Inc.; CDL:095209-D)
000003433	Mobil Chemical Company (1975) Discussion and Summary: [Sorghum Analyses for Bifenox and Propachlor]. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Bio/dynamics, Inc.; CDL:095209-B)
000003503	Mobil Chemical Company (1975) Mobil Chemical Modown Herbicide Performance Report. (Unpublished study received Jun 18, 1975 under 2224-EX-4; CDL:210089-A)
000003425	Mobil Chemical Company (1975) Rice. (Unpublished study received Jun 3, 1976 under 2224-EX-4; CDL:226095-B)
000004988	Mobil Chemical Company (1975) Rice Results. (Unpublished study received on unknown date under 5H1738; CDL:238040-A)
000004989	Mobil Chemical Company (1975) Small Grains. (Unpublished study received on unknown date under 5H1738; CDL:238040-B)
000003544	Mobil Chemical Company (1976) Mobil Chemical Modown Herbicide Performance Report. (Unpublished study received Dec 30, 1976 under 2224-EX-10; CDL:096899-B)
000003521	Mobil Chemical Company (1976) Modown Herbicide 4 Flowable Residue Data. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared in cooperation with Bio/dynamics, Inc.; CDL: 228700-A)
000003536	Mobil Chemical Company (1976) Modown 4 Flowable: Rice Residue Data. (Unpublished study received Jan 26, 1977 under 2224-53; prepared in cooperation with Univ. of Southwestern Louisiana and Louisiana State Univ. [and Agricultural and Mechanical College]; CDL: 228019-A)
000003358	Mobil Chemical Company (1976) Soil Degradation of Bifenox and Propanil Alone or in Combination. (Unpublished study received Jan 26, 1977 under 2224-53; prepared in cooperation with Bio/dynamics Laboratories; CDL:228015-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003432	Mobil Chemical Company (1976) Stability of Bifenox Residues in Frozen Corn Samples: Procedure and Results. (Unpublished study received Feb 3, 1976 under 6F1738; CDL:095208-A)
000004192	Mobil Chemical Company (1977) Weed Control in Tobacco. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by Rim Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232880-D)
000004172	Mobil Chemical Company (1974) Post Emergence Foliar Application Study: Bifenox-14C Applied on Rice. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-F)
000004173	Mobil Chemical Company (1974) Post Emergence Foliar Application Study: Bifenox-14C Applied on Wheat. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-G)
000003431	Mobil Chemical Company (1975?) Radioactive Uptake Study of 14C-Bifenox in Plants: Rotational Crops Grown in 14C-Bifenox Aged Soil. (Unpublished study received Feb 3, 1976 under 6F1738; CDL:095207-E)
005005107	Ohyama, H.; Kuwatsuka, S. (1975) Fate of bifenox (MC-4379) in rice plant and soil environment. Pages 227-230, In Proceedings of the Fifth Asian-Pacific Weed Science Society Conference.
000003463	Palmer, R.D.; Helpert, C.W. (1973) Rice Weed Control in the Western Belt of Texas. (Unpublished study received May 7, 1974 under 4G1505; prepared by Texas [A & M Univ.], Agricultural Experiment Station and Agricultural Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-AG)
000003571	Rogers, R.L.; Crawford, S.H.; Bannon, J.B.; Killmer, J.L. (1974) Uniform Preemergence Surface Applied Herbicide Tests. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-K)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003453	Russ, O.G. (1973) Report of 1973 Herbicide Data. (pp. 30-31,36-37, 40-45 only; Contribution no. 1412; unpublished study received May 7, 1974 under 4G1505; prepared by Kansas State Univ., Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-N)
000003551	Russ, O.G. (1975) Weed Control Research Plot Data. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Kansas State Univ., Agronomy Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-N)
000003404	Rutgers University (1973) Soybeans--1973: Preemergence--I: MC-4379, Alone and in Combinations. (Unpublisned study received Oct 8, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-L)
000003482	Smith, W.R. (1975) Corn Test. (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-B)
000003410	South, D.; Crowley, R.H.; Gjerstad, D.H. (1976) Recent herbicide weed control results in pine seedbeds. Proceedings of the Southern Weed Science Society 29(?):300-308. (Also In unpublished submission received Oct 8, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 226306-A)
000004194	Thompson, L., Jr.; Slack, C.H.; Rieck, C.E.; Herron, J.W. (1972) Results of Herbicide Evaluation Trials, 1972. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by Univ. of Kentucky, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232881-I)
000003364	Viator, D.; Deselle, L. (1976) Control of Alligatorweed in Rice. (Unpublished study received Jan 26, 1977 under 2224-53; prepared by Univ. of Southwestern Louisiana, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228016-M)
000003379	Viator, D.P. (1975) [Herbicide Control of Weeds in Rice]. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Univ. of Southwestern Louisiana, Dept. of Plant Industry and General Agriculture, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-H)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Considered to be Part of the
Data Base Supporting Registrations
Under the Standard

MRID	CITATION
000003387	Walker, J.D.; Triplett, G.B. (1975) Preemergence Weed Control in Conventional Soybeans: Project No. Hatch 306. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Ohio Agricultural Research and Development Center, [Dept. of] Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-R)
000004186	Wiese, A.F. (1975) [Efficacy Data on Sorghum]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Texas Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228701-AI)
000004183	Wu, C.H.; Hill, L.; Santelmann, P.W. (1975) Weed Control in Grain Sorghum: Report No. C75-2. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Oklahoma State Univ. [of Agriculture and Applied Science], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-AD)
000004185	Wu, C.H.; Hill, L.; Santelmann, P.W. (1975) Weed Control in Grain Sorghum: Report No. C75-2. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Oklahoma State Univ. [of Agriculture and Applied Science], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-AF)
000003527	Yocum, J.O. (1976) 1976 Tobacco Herbicide Trial. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by Pennsylvania State Univ., Agriculture [sic¶ Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232880-B)

Additional citations used to support this registration are listed belowed that were manually assigned temporary MRID numbers.

MRID	Citation
00130001	Mobil Chemical Company (19??). Efficiency of Method 70-72 for Extraction of Residues from Watery and Dry Substrates, Section D1-D4 Supplement under Pesticide Petition 1362.
00130002	Mobil Chemical Company (19??). Specificity of Mobil Chemical Method 70-72 for Methyl 5-(2',4'-Dichlorophenoxy)-2-Notrobenzoate [MC-4378, Modown] in the Presence of 2,4-Dichlorophenyl 4'-Nitro-phenyl Ether (MC-1002, TOK) under Pesticide Petition 1362.
00130003	Mobil Chemical Company (19??). MC-4379 Residues in Soybeans, Corn, Sorghum and Rice; Section D1-D4 under Pesticide Petition 1362.
00130004	Mobil Chemical Company (19??). Metabolism and Fate of MC-4379 in Plants and Soil - Soil Degradation and Plant Metabolism Studies; Section D-5 under Pesticide Petition 1362.
00130005	Mobil Chemical Company (19??). Metabolism and Fate of MC-4379 in Plants and Soil: Plant Metabolism Studies; Section D-5 Supplement under Pesticide Petition 1362.
00130006	Mobil Chemical Company (1974). MC-4379 (Bifenox) Residues in Soybean and Corn---Alachlor; Section D1-D2 Supplement under Pesticide Petition 1493.
00130007	Mobil Chemical Company (19??). Metabolism and Fate of MC-4379 (Bifenox) in Plants. Section D-5 Supplement under Pesticide Petition 1493.
00130008	Mobil Chemical Company (19??). Radioactive Uptake in Plant Rotational Crops Grown in 14^{14} MC-4379 (Bifenox) Aged Soil; under Pesticide Petition 1493.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000004187 Abernathy, J.R. (1975) Sorghum Screening Trial--Glover: [Report] No. 116E--75. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Texas A & M Univ., Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-AJ)

005005109 Adams, D.R.; Cihacek, D.J.; Smith, W.T.; Vannoy, R.K.; Dreger, R.H. (1976) Bifenox--results of the 1975 experimental permit on small grains and sorghum. Pages 75-76, In Proceedings of the North Central Weed Control Conference. Vol. 30. Lincoln, Nebr.: North Central Weed Control Conference.

000018068 Addink, S.; Keaton, J.A.; Rogers, W.E.; et al. (1975) Surflan plus Lorox plus Paraquat and Surflan plus Metribuzin plus Paraquat Tank-Mix Combinations Surface Applied Postplant for Weed Control in Soybeans under No-Till Conditions. (Unpublished study including addendum; experiment nos. SA4-24, SA4-25, SA4-27...; letter dated Mar 6, 1974 from J.A. Keaton to J.L. Barrentine, received May 1, 1975 under 1471-96; prepared in cooperation with Univ. of Kentucky, Dept. of Agronomy, North Carolina State Univ., Crop Science Dept. and Clemson Univ., Ediston Experiment Station, submitted by Elanco Products Co., Div. of Eli Lilly and Co., Indianapolis, Ind.; CDL:009797-A)

000003485 Agri-Research Associate [sic], Incorporated (1975) [Efficacy Data on Corn and Soybeans]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-F)

000003488 Agri-Research [Associates], Incorporated (1975) [Efficacy Data on Corn and Soybeans]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-I)

000003567 Agri-Research Associates, Incorporated (1973) Adrian, Illinois Plots: [Efficacy Data]. (Unpublished study received May 14, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-E)

000003569 Agri-Research Associates, Incorporated (1973) Burlington, Iowa Plots: [Efficacy Data]. (Unpublished study received May 14, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-G)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000003492 Agri-Research Associates, [Incorporated] (1975) [Efficacy Data on Corn and Soybeans.] (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-Q)

005009229 Agronomy and Rice Production Training and Research Departments (1976) Weed control in rice: transplanted rice. Pages 224-226, In IRRI Annual Report for 1974. Los Banos, Laguna, Philippines: International Rice Research Institute.

005007916 Ahrens, J.F.; Cubanski, M. (1977) Herbicides for hemlock seedbeds. Pages 315-319, In Proceedings of the Northeastern Weed Science Society. Vol. 31. Painter, Va.: Virginia Truck and Ornamentals Research Station.

005004663 Akins, M.B.; Jeffery, L.S.; Overton, J.R.; Morgan, T.H., Jr. (1976) Soybean response to preemergence herbicides. Pages 50, In Proceedings of the 29th Annual Meeting of the Southern Weed Science Society. Athens, Ga.: Southern Weed Science Society.

000017024 Alley, H.; et al. (1978) Weed control in corn. Research in Weed Science 119(Jan):26-28,31. (Test no. 11558a; also In unpublished submission received Nov 20, 1978 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-G)

000017439 Alley, H.; Humburg, (1976) Surface Applied Preemergence-Postemergence Treatments under Sprinkler Irrigation, Torrington: Test No. 11255. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Univ. of Wyoming, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232203-B)

005006631 Alley, H.P.; Humburg, N.E. (1978) Annual weed control in wheat and barley. Pages 14-22, In Research in Weed Science, 1977. Laramie, Wyo.: Wyoming Agricultural Experiment Station. (Wyoming Agricultural Experiment Station research journal no. 119)

000017243 Andersen, R.N.; Ziebart, D.J. (1975) [Evaluations of Herbicides in a Soybean Weed Nursury, 1975]: Test No. 10498. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:0957769-AP)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000016142	Andersen, R.N.; Ziebart, D.J. (1975) Evaluations of Herbicides in a Soybean Weed Nursery, 1975: Test No. 10498. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-R)
000004167	Anderson, R.N.; Ziebart, D.J. (1973) Evaluations of Herbicides in a Soybean Weed Nursery. (Minnesota Agricultural Experiment Station, Scientific journal series, paper no. 8457; unpublished study received Oct 8, 1976 under 2224-50; prepared by U.S. Agricultural Research Service, North Central Region in cooperation with Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-I)
005008765	Anon. (1973) Dwarf beans: weed control. Pages 53-58, In Pea Growing Research Organisation Annual Report 1972. Thornhaugh, Peterborough, England: Pea Growing Research Organisation.
005007913	Anon. (1973) Legumes in general: tolerance to herbicides. Pages 73-75, In Pea Growing Research Organisation Annual Report 1972. Thornhaugh, Peterborough, England: Pea Growing Research Organisation.
005008015	Anon. (1973) Peas: weed control. Pages 21-30, In Pea Growing Research Organisation Annual Report 1972. Thornhaugh, Peterborough, England: Pea Growing Research Organisation.
005008660	Anon. (1974) New herbicides. Soybean Digest 34(5):4-5.
005016731	Anon. (1975) Stale seedbed control of red rice. Pages 101-106, In Louisiana State University Agricultural Experiment Station, 66th Annual Report. Edited by J.B. Baker. Crowley, La.: Rice Experiment Station.
000003477	Arnold, (1973) Experiment: Small Grain Herbicide Screening. (Unpublished study received May 7, 1974 under 4G1505; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AW)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000003458 Arnold, (1973) Experiment: Sorghum Herbicide Screening. (Unpublished study received May 7, 1974 under 4G1505; prepared by South Dakota [State Univ., Dept. of Plant Science], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-U)

000003500 Arnold, G. (1975) Effect of Herbicides on Sorghum--Redfield. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by South Dakota State Univ., Dept. of Plant Science, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228701-AH)

000003476 Arnold, W.E.; O'Neal, W.B. (1972) Wild Buckwheat Control in Winter Wheat. (Unpublished study received May 7, 1974 under 4G1505; prepared by South Dakota State Univ., Plant Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AV)

000017710 Ashley, R.A. (1974) Preemergence Herbicides on Sweet Corn. (Unpublished study received May 11, 1978 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:233950-AJ)

000015439 Ashley, R.A. (1974) 1974 Summary of Weed Science Research in Horticultural Crops. By Univ. of Connecticut, Storrs Agricultural Experiment Station. Storrs, Conn.: UC. (Plant science working paper; pp. 12,20-23 only; test no. 10440; also In unpublished submission received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228115-T)

005005267 Baird, D.D.; Brown, R.H.; Phatak, S.C. (1974) Influence of preemergence herbicides, nitrogen, sod density, and mowing on postemergence activity of glyphosate for quackgrass control. Pages 76-86, In Proceedings of the Northeastern Weed Science Society. Vol. 28. Painter, Va.: Northeastern Weed Science Society.

000004162 Baker, J.B. (1977) Rice Weed Control Studies: A Preliminary Report. (Unpublished study received Apr 11, 1978 under 2224-EX-4; prepared by [Louisiana State Univ. and Agricultural and Mechanical College, Agricultural and Experiment Station, Dept. of Plant Pathology], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:233847-B)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000016207 Bauman, T.T.; Williams, J.L., Jr.; Ross, M.A.; et al. (1975) Purdue Weed Science Agronomic Crops Investigations: Test No. 10557. (pp. 4-5,13-14,17-18 only; unpublished study received Jan 19, 1977 under 100-583; prepared by Purdue Univ., Botany & Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-N)

000016202 Bauman, T.T.; Williams, J.L., Jr.; Ross, M.A.; et al. (1975) Purdue Weed Science Agronomic Crops Investigations: Test No. 10557. (pp. 4-5,44-49 only; unpublished study received Jan 19, 1977 under 100-583; prepared by Purdue Univ., Botany & Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095759-G)

000018387 Bauman, T.T.; Williams, J.L., Jr.; Ross, M.A.; et al. (1975) Standard 1; Soybeans 1975: Test No. 10557. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Purdue Univ., Botany and Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-D)

000018394 Bauman, T.T.; Williams, J.L., Jr.; Ross, M.A.; et al. (1975) Standard 1; Soybeans 1975: Test No. 10557. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Purdue Univ., Botany & Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-L)

000014360 Bauman, T.T.; Williams, J.L., Jr.; Wiley, G.L.; et al. (1978) Uniform Soybeans, 1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Purdue Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-O)

000016341 Bayer, G. (1974) [Development of Corn and Weeds, Soil Conditions and Weather at Time of Treating]: Test No. 10167. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AI)

000015441 Bayer, G.H. (1975) Conventional Corn Herbicide Test: Test No. 10512. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228115-W)

000003554 Bayer, G.H. (1975) Three Bean Herbicide Test: Fabius, New York: 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Agway, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-T)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000016209 Bayer, G.H. (1975) Three Bean Herbicide Test: Test No. 10513. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-P)

000018395 Bayer, G.H. (1975) Three Bean Herbicide Test: Test No. 10513. (Unpublished study received Sep 13, 1977 under 100-523; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-M)

005010474 Behm, J.A.; Arnold, W.E. (1976) Agronomic effects of bifenox on spring wheat as affected by growth stage and variety Weed Control Conference. Vol. 30. Lincoln, Nebr.: North Central Weed Control Conference.

000003468 Behrens, R.; Elakkad, M. (1973) Weed Control in Oats and Wheat. (Minnesota Agricultural Experiment Station, Scientific journal series, paper no. 8466; unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics and Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AM)

000004179 Behrens, R.; Elakkad, M. (1974) Preemergence Herbicide Applications for Weed Control in Corn. (Minnesota Agricultural Experiment Station, Scientific journal series, paper no.; unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228701-M)

000016943 Behrens, R.; Elakkad, M. (1974) Preplanting Herbicide Applications for Weed Control in Corn: Test No. NCWCC 1974. (Unpublished paper presented at the Thirty-First Annual North Central Weed Control Conference; unpublished study received Jan 6, 1976 under 100-EX-38; prepared by Univ. of Minnesota, Agricultural Experiment Station, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:223432-J)

000004164 Behrens, R.; Elakkad, M. (1975) Preemergence Herbicide Applications for Weed Control in Corn, 1975. (Minnesota Agricultural Experiment Station, Scientific journal series, paper no.; unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000005551 Behrens, R.; Elakkad, M.A. (1978) Herbicide Evaluation for Weed Control in Oats and Wheat, Rosemount, MN-1978. (Unpublished study received Mar 2, 1979 under 2224-EX-10; prepared by Univ. of Minnesota, Agricultural Experiment Station, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-E)

000014348 Behrens, R.; Wiersma, J.; Elakkad, M.A.; et al. (1978) Herbicide Evaluation in Spring Wheat at Crookston, MN--1978. (Minnesota Agricultural Experiment Station, Scientific journal series, Paper no. 10,527; unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Univ. of Minnesota, Dept. of Agronomy & Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-C)

005007917 Bell, V.D.; Oliver, L.R. (1977) Control and competition of cut-leaved groundcherry in soybeans. Pages 49-49, In Proceedings of the Southern Weed Science Society. Vol. 30. Athens, Ga.: Southern Weed Science Society.

005013084 Bell, V.D.; Oliver, L.R. (1979) Germination, control, and competition of cutleaf groundcherry (Physalis angulata) in soybeans (Glycine max). Weed Science 27(1):133-138.

005004450 Boldt, P.F.; Putnam, A.R. (1976) Onion and weed response to several newer herbicides. Pages 107, In Proceedings--North Central Weed Control Conference. Vol. 31. Lincoln, Nebr.: North Central Weed Control Conference.

000003361 Bowman, D.H. (1975) Table: Mobil Herbicide Experiment, Stoneville, Mississippi, 1974. (Unpublished study including letter dated Jan 22, 1975 from D.H. Bowman to P.J. Kruger, received Jan 26, 1977 under 2224-53; prepared by [Mississippi State Univ. of Applied Arts and Sciences], Delta Branch Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228016-G)

000003391 Bowman, D.H. (1975) Table: Modown Herbicide Experiment, Stoneville, Mississippi, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by [Mississippi State Univ. of Applied Arts and Sciences], Delta Branch Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223554-E)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000014369 Bozarth, J. (1978) Preplant Incorporated Study. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-X)

000014366 Bozarth, J. (1978) Preplant Incorporation of Modown. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-U)

000014370 Bozarth, J. (1978) Preplant Incorporation of Modown (Large Scale). (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-Y)

000014368 Bozarth, J. (1978) Preplant Incorporation of Modown (Large Scale). (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-W)

000014367 Bozarth, J. (1978) Preplant Incorporation of Modown (Large Scale). (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-V)

005000993 British Crop Protection Council (1974) Pesticide Manual: Basic Information on the Chemicals Used as Active Components of Pesticides. Edited by H. Martin and C.R. Worthing. 4th ed. London, England: British Crop Protection Council.

000016647 Burnside, O.C. (1974) Abstract for the 1974 North Central Weed Control Conference Research Report: Soil Persistence of Soybean Herbicides during the Growing Season: Test No. 10103. (Unpublisned study received Jan 19, 1977 under 100-583; prepared by Univ. of Nebraska, Agricultural Experiment Station, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095769-BA)

000018697 Burnside, O.C. (1974) Abstract for the 1974 North Central Weed Control Conference Research Report: Weed Control in Narrow Row Soybean Production: Test No. 10110. (Unpublisned study received Jan 19, 1977 under 100-583; prepared by Univ. of Nebraska, Agricultural Experiment Station, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-BB)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017246 Burnside, O.C. (1975) Abstract for the 1975 North Central Weed Control Conference Research Report: Control of Weeds in Close-Drilled Soybeans: Test No. 10467. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Nebraska, Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-BD)

000017075 Burnside, O.C. (1977) Abstract for the 1977 North Central Weed Control Conference Research Report: Selective Control of Weeds in Corn: Test No. 11488. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Univ. of Nebraska, Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-BK)

005013083 Burnside, O.C.; Schultz, M.E. (1978) Soil persistence of herbicides for corn, sorghum, and soybeans during the year of application. Weed Science 26(2):108-115.

005013384 Clay, D.V.; Rutherford, S.J.; Wiseman, J.S. (1975) New herbicides for strawberries: crop tolerance and weed control perfonmance. Pages 699-706, In Proceedings of the 12th British Weed Control Conference; 1974. London, England: British Crop Protection Council.

000016170 Coan, R.M. (1976) To Obtain Data to Register Dual + Sencor and Dual + Lorox for Weed Control in Soybeans: Test No. MW OH 210 76. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095765-N)

000005890 Coble, H.D. (1978) [Weed Control, Crop Safety, and Yield Figures on the Modown Tests]. (Unpublished study including letter dated Dec 1, 1978 from H.D. Coble to Harvey Dail, received Feb 27, 1979 under 2224-EX-17; prepared by North Carolina State Univ., Dept. of Crop Science, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237709-E)

000003556 Cornell University (19??) Regional Research Work with Corn and Soybeans. (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-V)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000005381 Crane, L.E.; Schoppe, K. (1978) Research Report of Cooperative Herbicides Experiment with Mobil Chemical Company. (Unpublished study including letter dated Jan 25, 1979 from L.E. Crane to William C. Odle, received Mar 2, 1979 under 2224-EX-10; prepared by Chocolate Bayou Co., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-D)

000003395 Crop Chemical Testing Service (1973) Modown and Modown-Treflan Overlaid Combinations. (Unpublished study received Oct 8, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-B)

000003396 Crop Chemical Testing Service (1973) Modown and Modown/Lasso Tank Mix Combinations. (Unpublished study received Oct 8, 1976 under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-C)

000003528 Currin, R.E.; Pitner, J.B.; Benton, D.A.; Stephens, R.L.; Ford, Z.T. (1977) Tobacco Herbicide Evaluation--1977. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by [Clemson Univ.], Pee Dee Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232880-C)

005015725 Dallyn, S.L.; Stone, K.W.; Warholic, D.T.; Schippers, A.M. (1977) Control of prostrate spurge in muck onions. Pages 275-282, In Proceedings of the Northeastern Weed Control Conference. Vol. 31. Farmingdale, N.Y.: Northeastern Weed Control Conference. (Department of Vegetable Crops, Cornell University, paper no. 729)

005019822 Davis, J.H.; Habetz, R. (1975) Preemergence surface applied herbicides on the Habetz Farm, Crowley, La. (a preliminary report). Pages 204-205, In Rice Experiment Station, Crowley, Louisiana, 66th Annual Progress Report, 1974. Crowley, La.: Rice Experiment Station.

005006609 Dean, J.W.; Caudill, J.B.; Fuselier, G.G.; Clayton, C.A.; Dreger, R.H. (1976) Bifenox: results of the 1975 experimental permit on rice. Pages 439-441, In Proceedings of the 29th Annual Meeting of the Southern Weed Science Society. Athens, Ga.: Southern Weed Science Society.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005004449 Dean, J.W.; Dreger, R.H.; Jones, D.F. (1977) The effect of timing of bifenox applications for the control of barnyard grass in rice. Pages 402-403, In Proceedings of the Southern Weed Science Society. Vol. 30. Athens, Ga.: Southern Weed Science Society.

000014362 Dekker, J.; Meggitt, W.; Bond, R. (1978) Herbicide Trials on Velvetleaf in Soybeans. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Michigan State Univ., Dept. of Crop & Soil Science, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-Q)

000003513 Desselle, L.J. (1977) Control of Alligatorweed in Rice. (Unpublished study received Dec 5, 1977 under 2224-EX-10; prepared by Univ. of Southwestern Louisiana, [Dept. of] Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232454-F)

000005835 Desselle, L.J. (1978) Chemical Control of Alligatorweed in Rice. (Unpublished study including letter dated Oct 11, 1978 from L.J. Desselle to Gregg Fuslier, received Mar 2, 1979 under 2224-EX-10; prepared by Univ. of Southwestern Louisiana, Dept. of Plant Industry and General Agriculture, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-J)

005017724 Desselle, L.J.; Foret, J.A. (1978) Chemical control of alligatorweed (Alternantnera philoxeroides (Mart.) Griseb.) in rice [abstract no. 107]. Pages 50-51, In Abstracts of the 1978 Meeting of the Weed Science Society of America. Champaign, Ill.: Weed Science Society of America.

000016369 Dexter, A.G.; Nalewaja, J.D. (1974) Evaluation of Preplant Incorporated, Preemergence, and Postemergence Herbicides on Sugarbeets and Several Other Species: Test No. 10584. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BO)

000018393 Doersch, R.E. (1974) Herbicide Performance in Soybeans at Arlington: Test No. 10196. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 231563-K)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017149 Doersch, R.E. (1975) Herbicide Performance in Corn at Arlington: II. Preemergence Treatments. (Unpublished study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submi :ted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 233950-U)

000003557 Doersch, R.E. (1975) Herbicide Performance in Soybeans at Arlington: II. Preemergence Treatments. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-X)

000017152 Doersch, R.E. (1976) Herbicide Performance in Corn at Arlington: II. Preemergence Treatments. (Unpublished study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 233950-X)

000017154 Doersch, R.E. (1977) Annual Weed Control in Corn at Arlington. (Unpublished study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:233950-Z)

000017143 Doersch, R.E.; Paulson, W.H.; Harvey, R.G. (1976) Herbicide Performance in Corn at Lancaster. (Unpublished study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 233950-K)

000003407 Doersch, R.E.; Rand, R.; Harvey, R.G. (1975) Herbicide Performance in Soybeans at Spooner. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by [Univ. of Wisconsin], Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-R)

000017141 Doersch, R.E.; Rand, R.E.; Harvey, R.G. (1976) Herbicide Performance in Corn at Spooner. (Unpublisned study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 233950-G)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017138 Doerson, R.E.; Weis, G.; Harvey, R.G. (1976) Herbicide Performance in Corn at Hancock. (Unpublished study received May 11, 1978 under 100-583; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 233950-C)

005011385 Dreger, R.H. (1977) New herbicides. Weeds Today 8(2):18.

000018396 Duke, W.B.; Hahn, R.R. (1975) Soybean Herbicides--Seneca County: Test No. 10556. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Cornell Univ., Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-N)

000003380 Eastin, E.F. (1975) Table: Effect of Bifenox and Butachlor Applied to Rice on Weed Control 8 Weeks after Emergence at Beaumont, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Texas A & M Univ., Agricultural Experiment Station, Agricultural Research & Extension Center at Beaumont, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-J)

005002799 Eastin, E.F. (1976) Separation of bifenox and related compounds by thin-layer chromatography. Journal of Chromatography 124(2):422-423.

005013925 Eastin, E.F. (1978) Soybean response to selected rice herbicides. Crop Science 18(6):967-968.

000003459 Eastin, E.F.; Helpert, C.W. (1973) Herbicide Field Evaluations for Sorghum, 1973: Report No. 2. (Unpublished study received May 7, 1974 under 4G1505; prepared by Texas A & M Univ., Agricultural Experiment Station, Dept. of Soil and Crop Sciences, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-V)

000016112 Eplee, R.E. (1974) Soybeans--Preliminary Evaluation Control of Witchweed Host Grasses: Test No. 10074. (Unpublished study received Jan 19, 1977 under 100-583; prepared by U.S. Dept. of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine Programs, Witchweed Methods Development Laboratory, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-T)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000016934 Eplee, R.E.; Langston, M. (1974) Corn--Preliminary Evaluation Herbicidal Control of Witchweed and Witchweed Host Grasses: Test No. 10074. (Unpublished study received Jan 6, 1976 under 100-EX-38; prepared by U.S. Dept. of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine Programs, Witchweed Methods Development Laboratory, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:223432-A)

000016099 Eplee, R.E.; Langston, M. (1975) Small Plot Soybeans: Test No. 10458. (Unpublished study received Jan 19, 1977 under 100-583; prepared by U.S. Dept. of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine Programs, Witchweed Methods Development Laboratory, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-F)

000003467 Erickson, L.C. (1973) Preliminary Report: Modown and Other Products for Control of Veronica hederaefolia Ivyleaf Speedwell. (Unpublisned study received May 7, 1974 under 4G1505; prepared by Univ. of Idaho, Dept. of Plant and Soil Sciences, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AL)

005007048 Fairchild, E.J., ed. (1977) Agricultural Chemicals and Pesticides: A Subfile of the NIOSH Registry of Toxic Effects of Chemical Substances. Cincinnati, Ohio: National Institute for Occupational Safety and Health. (Pagination includes 46 pages numbered i-xlvi; available from: NTIS, Springfield, VA: PB-274 748)

000017428 Ferrant, N. (1976) No-Till Field Corn: Test No. 10989a. (Unpublished study received Nov 10, 1977 under 100-Ex-59; prepared by Agway, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-D)

000017426 Ferrant, N. (1976) No-Till Field Corn: Test No. 10989c. (Unpublished study received Nov 10, 1977 under 100-Ex-59; prepared by Agway, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-B)

000018729 Ferrant, N. (1976) No-Till Field Corn: Test No. 10989c. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Agway, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-N)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000018728 Ferrant, N. (1976) No-Till Field Corn: Test No. 10989d. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Agway, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-K)

000017429 Ferrant, N. (1976) No-Till Field Corn: Test No. 10989e. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Agway, Inc., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-E)

000003397 Fink, R.J. (1973) Preemergence Herbicides for Soybeans. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Western Illinois Univ., Dept. of Agriculture, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-D)

005001056 Finke, R.L.; Warner, R.L.; Muzik, T.J. (1977) Effect of herbicides on in vivo nitrate and nitrite reduction. Weed Science 25(1):18-22.

000003479 Fisons (Canada), Limited (1973) 1973 Modown Development. (Unpublished study received May 7, 1974 under 4G1505; prepared in cooperation with Canada, Dept. of Agriculture, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-AX)

000017056 Fletchall, O.H.; Meyer, M.; Perkins, C.; et al. (1977) The Control of Weeds: Project 350. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Univ. of Missouri, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-AB)

000003454 Fletchall, O.H.; Rains, L.J.; Roskamp, G. (1972) Project 350--The Control of Weeds. (Unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of Missouri, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-O)

000004195 Fletcher, D. (1972) Report to Mobil Chemical Company: 8-Day Dietary LC-50? Study with MC-4379 Technical Grade (99%) in Mallard Ducklings IBT No. J1885. (Unpublished study received Sep 1, 1977 under 222-53; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.: CDL:231491-D)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000004196 Fletcher, D. (1972) Report to Mobil Chemical Company: 8-Day Dietary LC-50: Study with MC-4379 Technical Grade (99%) in Ringneck Pheasants: IBT No. J1886. (Unpublished study received Sep 1, 1977 under 2224-53; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:231481-E)

000003507 Fletcher, D. (1976) Report to Mobil Chemical Company: Acute Oral Toxicity Study with Bifenox Technical in Mallard Ducks: IBT No. 8580-09570. (Unpublished study received Oct 5, 1976 under 2224-50; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228348-A)

000003565 Frans, R. (1972) Table: Soybeans: Secondary Evaluation of Preemergence Herbicides on Crowley Silt Loam, Stuttgart. (Unpublished study received May 14, 1976 under 2224-50; prepared by Univ. of Arkansas, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-B)

000005887 Frans, R.; McClelland, M.; Sharp, T. (1978) Herbicide Field Trials on Field Crops, 1978. (pp. 2,21-44,68-72 only; unpublished study received Feb 27, 1979 under 2224-EX-17; prepared by Univ. of Arkansas, Agricultural Experiment Station, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237709-B)

000018390 Frans, R.E. (1975) Soybeans: Primary Evaluation of Preemergence Herbicides, Fayetteville: Test No. 10779. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Univ. of Arkansas, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 231563-G)

000003446 Frans, R.E.; Blythe, T.O. (1973) Herbicide Field Evaluation Trials on Field Crops, 1973. (Unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of Arkansas, Agricultural Extension Service, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-G)

005005456 Frans, R.E.; Blythe, T.O. (1974) Herbicide Field Evaluation Trials on Field Crops, 1973. Fayetteville, Ark.: Agricultural Experiment Station. (University of Arkansas Agricultural Experiment Station mimeograph series no. 218)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000004200	Frans, R.E.; Blythe, T.O.; Richardson, J.T. (1975) Herbicide Field Evaluation Trials on Field Crops, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by [Univ. of Arkansas], Agricultural Experiment Station, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-C)
000018285	Frans, R.E.; Currey, W.; Dowler, C.C.; et al. (1972) [Evaluation of Herbicides on Weed Control in Soybeans]. (Unpublished study including test nos. 72-8 and 72-5, received Jul 16, 1973 under 352-270; submitted by E.I. du Pont de Nemours & Co., Wilmington, Del.; CDL:002892-B)
000016124	Frans, R.E.; et al. (1975) Soybeans: Primary Evaluation of Preemergence Herbicides, Fayetteville--Early Rating: Test No. 10779. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Arkansas, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AG)
005013006	Frans, R.E.; Richardson, J.T.; Gordon, E.C. (1977) Herbicide Field Evaluation Trials on Field Crops, 1976. Fayetteville, Ark.: University of Arkansas Agricultural Experiment Station. (University of Arkansas Agricultural Experiment Station mimeograph series no. 249)
005013897	Frans, R.E.; Staton, H.C.; Blythe, T.D. (1973) Soybeans. Pages 4-6,18-29, In Herbicide Field Evaluation Trials on Field Crops, 1972. Fayetteville, Ark.: University of Arkansas Agricultural Experiment Station. (University of Arkansas Agricultural Experiment Station mimeograph series no. 210)
005007919	Frans, R.E.; Staton, H.C.; Blythe, T.O. (1973) Corn and sorghum. Pages 6-7,30-31, In Herbicide Field Evaluation Trials on Field Crops, 1972. Fayetteville, Ark.: University of Arkansas Agricultural Experiment Station. (University of Arkansas Agricultural Experiment Station mimeograph series no. 210)
000016134	Gardner, F.P.; Chambliss, C.G.; Cooper, R.L.; et al. (1975) 1975 Progress Report: Soybean Research Studies: Test No. 10492. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Western Illinois Univ., Dept. of Agriculture in cooperation with Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-D)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005014304 Geer, R.D. (1978) Predicting the Anaerobic Degradation of Organic Chemical Pollutants in Waste Water Treatment Plants from their Electrochemical Reduction Behavior. Washington, D.C.: U.S. Department of the Interior, Office of Water Research and Technology. (Montana University Joint Water Resources Research Center, Bozeman, research report no. 95; available from: NTIS, Springfield, VA; PB-289 224)

005020066 Geer, R.D. (1978) Predicting the Anaerobic Degradation of Organic Chemical Pollutants in Waste Water Treatment Plants from Their Electrochemical Reduction Behavior. Bozeman, Mont.: Montana State University Joint Water Resources Research Center. (MUJWRRC report no. 95; available from: NTIS, Springfield, VA; PB-289 224)

005020073 Gill, H.S.; Walia, U.S.; Brar, L.S. (1979) Chemical weed control in wheat (Triticum aestivum) with particular reference to Phalaris minor Retz. and wild oats (Avena ludoviciana Dur.). Pesticides 13(12):15-20.

000003411 Gjerstad, D.H.; South, D.B. (1975) Supporting Data for Application for Registration of: Amex-820, Devrinol, Modown, Devrinol 50WP / Modown 80WP--Tank Mix, Enide 50WP / Modown 80WP--Tank Mix: For Weed Control in Pine Seedbeds. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Auburn Univ., Dept. of Forestry in cooperation with U.S. Forest Service, State and Private Forestry, Southeastern Area, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226306-C)

000004190 Gjerstad, D.H.; South, D.B. (1976) Supporting Data for Application for State Registration of: Modown for Weed Control in Pine Seedbeds. (Unpublished study received Dec 13, 1977 under 2224-50; prepared by Auburn Univ., Dept. of Forestry in cooperation with U.S. Forest Service, State and Private Forestry, Southeastern Area, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232503-A)

005013082 Gjerstad, D.H.; South, D.B.; Crowley, R.H. (1979) Effect of selected herbicides on production of southern pines (Pinus spp.) in nursery seedbeds. Weed Science 27(2):173-177.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017523 Gossett, B.J. (1974) Weed Control Research: Test No. 10216. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232197-B)

000003376 Gossett, B.J. (1975) Experiment 1F: Evaluation of Soil-Surface Applied Herbicides for Weed Control in Corn, Pee Dee Experiment Station, Florence, South Carolina, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-E)

000016101 Gossett, B.J. (1975) Weed Control Research: Test No. 10781. (pp. 1,26,32,39,41 only; unpublished study received Jan 19, 1977 under 100-583; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095751-H)

000016102 Gossett, B.J.; Musen, H.L.; Cohoon, D.F. (1974) Soybean Weed Control (Experiment 2B, Blackville, S.C.): Test No. 10216. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-I)

000004170 Gossett, B.J.; Pitner, J.B.; Purvis, D. (1972) Experiment 7F. Florence, S.C., 1972. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Clemson Univ., [Dept. of Agronomy and Soils], Pee Dee Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-Q)

000016103 Gossett, B.J.; Pitner, J.B.; Purvis, D. (1974) Soybean Weed Control (Experiment 8F, Florence, S.C.): Test No. 10216. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-J)

000016051 Gossett, B.J.; Pitner, J.B.; Purvis, D. (1974) Soybean Weed Control (Experiment 7F, Florence, S. C.): Test No. 10216. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Clemson Univ., Dept. of Agronomy and Soils, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095754-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000016356	Hahn, R.R. (1975) Regional Research Work with Corn and Soybeans: Test No. 10556. (pp. 38,42-44 only; unpublished study received Feb 18, 1977 under 100-583; prepared by Cornell Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AX)
000016357	Hahn, R.R (1975) Regional Research Work with Corn and Soybeans: Test No. 10556. (pp. 38,58-60 only; unpublished study received Feb 18, 1977 under 100-583; prepared by Cornell Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AY)
000016355	Hahn, R.R. (1975) Regional Research Work with Corn and Soybeans: Test No. 10556. (pp. 38,55-57 only; unpublished study received Feb 18, 1977 under 100-583; prepared by Cornell Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AW)
000016353	Hahn, R.R. (1975) Regional Research Work with Corn and Soybeans: Test No. 10556. (pp 38,45-47 only; unpublished study received Feb 18, 1977 under 100-583; prepared by Cornell Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AU)
000016351	Hahn, R.R. (1975) Regional Research Work with Corn and Soybeans: Test No. 10556. (pp. 38-41 only; unpublished study received Feb 18, 1977 under 100-583; prepared by Cornell Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C., CDL:228107-AS)
005004919	Hahn, R.R.; Herendeen, N.R.; Shepard, D.N. (1976) Herbicide combinations for annual weed control in corn. Pages 64, In Proceedings of the Northeastern Weed Science Society. Vol. 30. Painter, Va.: Virginia Truck and Ornamentals Research Station.
000003423	Haley, S. (1972) Report to Mobil Chemical Company: Teratogenic Study with MC-4379 in Albino Rats: IBT No. B2156. (Unpublished study including report and letter dated Nov 7, 1977 from T. Ellison to R.M. Schweikher, received Nov 10, 1977 under 2224-50; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 096602-A)
000003465	Hamilton, K.C. (1973) Postemergence Applications of Herbicides in Wheat 1972-1973--Mesa. (Unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of Arizona, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AI)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000003566 Hardcastle, W.S. (1972) Summary Sheet: Test Ref. No. 71-14. (Unpublished study received May 14, 1976 under 2224-50; prepared by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 224427-D)

000016119 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; et al. (1975) Soybean Uniform Preemergence Surface Applied Herbicide Test: Test No. 10854. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, Dept. of Plant Pathology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AA)

000016118 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; et al. (1975) Uniform Preemergence Surface Applied Herbicide Test: Test No. 10854. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, Dept. of Plant Pathology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-Z)

000016123 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; et al. (1975) Uniform Preemergence Surface Applied Herbicide Test: Test No. 10854. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, Dept. of Plant Pathology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AM)

000016120 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; et al. (1975) Uniform Preemergence Surface Applied Herbicide Test: Test No. 10854. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, Dept. of Plant Pathology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AB)

000016146 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; et al. (1975) Uniform Preemergence Surface Applied Herbicide Test: Test No. 10854. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-Y)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000003572 Harger, T.R.; Rogers, R.L.; Bannon, J.S.; Killmer, J.L.; Vidrine, P.R.; Crawford, S.H.; Marshall, J.G.; Melville, D.R.; Lawrence, R. (1975) Soybean Weed Control Research: Progress Report--1975. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-L)

005005042 Harrison, S.; Oliver, L.R. (1977) Texas gourd, a potentially serious weed problem to Arkansas producers. Arkansas Farm Research 26(3):7.

005006913 Harvey, R.G.; Andrew, R.H.; Ruscoe, A.W. (1977) Giant foxtail and velvetleaf control in sweet corn. Agronomy Journal 69(5):761-764.

000017403 Harvey, R.G.; Baker, C.R. (1974) Annual Weed Control in Corn Study: Test No. 10196. (Unpublished study received Feb 9, 1976 under 100-EX-44; prepared by Univ. of Wisconsin, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:096496-J)

000014359 Hayes, (1978) Herbicide Evaluations for Weed Control in Field Crops. (pp. 1-3,60 only; unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-N)

000003447 Heikes, E. (1972) Sorghum Yields. (Unpublisned study received May 7, 1974 under 4G1505; prepared by Colorado State Univ., Cooperative Extension Service, Arkansas Valley Experiment Station at Rocky Ford, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-H)

000003448 Heikes, E. (1973) Evaluation of Herbicides Field Tested. (Unpublished study received May 7, 1974 under 4G1505; prepared by Colorado State Univ., [Cooperative Extension Service], Arkansas Valley Research Center at Rocky Ford and Northern Colorado Research Development Center at Greeley, submitted by Mobil Chemical, Co., Industrial Chemicals, Richmond, Va.; CDL:093987-I)

000016316 Heikes, E. (1974) Corn/Herbicide Experiments: Test No. 10268. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-B)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000005871 Heikes, E. (1975) Evaluation of Herbicides Field Tested, 1975. (pp. 5-6,21-24,26, only; unpublished study received Mar 28, 1979 under CO 79/7; prepared by Colorado State Univ., Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemical, Richmond, Va.; CDL:237942-A)

000004163 Heikes, E. (1975) Evaluation of Herbicides for Weed Control in Corn. (Unpublished study including letter dated Oct 22, 1975 from E. Heikes to W.T. Smith, received Dec 12, 1975 under unknown admin. no.; prepared by Colorado State Univ., Cooperative Extension Service, [Dept. of Botany and Plant Pathology], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-A)

000016317 Heikes, E. (1975) Evaluation of Herbicides for Weed Control in Corn: Test No. 10568. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-C)

000014373 Heikes, E. (1976) Sorghum Yields. (Unpublished study including letter dated Jan 1977 from E. Heikes to R. Dreger, received Jun 5, 1979 under NB 79/8; prepared by Colorado State Univ., Cooperative Extension Service, Dept. of Botany and Plant Pathology, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238572-E)

000005872 Heikes, E. (1976) Sorghum Yields: Arkansas Valley Research Center--Rocky Ford, Colorado, 1976. (Unpublished study including letter dated Jan 1977 from E. Heikes to R. Dreger, received Mar 28, 1979 under CO 79/7; prepared by Colorado State Univ., Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237942-B)

000017045 Heikes, E. (1977) [Herbicide Application Summary]. (Unpublished study received Oct 20, 1978 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-K)

000005873 Heikes, E. (1977) Progress Report, 1977. (Unpublished study received Mar 28, 1979 under CO 79/7; prepared in cooperation with Colorado State Univ., Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 237942-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000014346	Heikes, E. (1978) Corn: Evaluations--NCRDC--1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-A)
000006056	Heikes, E. (1978) Progress Report, 1978. (Unpublished study received Mar 28, 1979 under CO 79/7; prepared by Colorado State Univ., Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237942-D)
000005879	Heikes, E. (1978) Progress Report, 1978. (Unpublished study received Mar 2, 1979 under 2224-EX-10; prepared by Colorado State Univ., Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-B)
000014347	Heikes, E. (1978) Sorghum. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-B)
000017329	Heikes, G. (1975) Corn Herbicide Experiments: Test No. 10962. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-C)
000017022	Heikes, G. (1976) Center Pivot/Corn/Herbicide Experiments: Test No. 10958. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Colorado State Univ., Weeds Research Laboratory, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 235353-C)
000017374	Heikes, G. (1976) Corn Herbicide Experiments: Test No. 10955. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Colorado State Univ., Weeds Research Laboratory, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228119-I)
000005880	Helpert, C.W.; Eastin, E.F. (1978) Herbicide Field Evaluations for Rice, 1978. (pp. 1-5,10-24 only; unpublished study received Mar 2, 1979 under 2224-EX-10; prepared by Texas A & M Univ., Agricultural Experiment Station, Agricultural Research and Extension Center at Beaumont, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-C)
005008010	Helpert, C.W.; Eastin, E.F.; Merkle, M.G. (1974) Herbicide combinations for weed control in sorghum. Pages 138-148, In Proceedings of the Southern Weed Science Society. Vol. 27. Athens, Ga.: Southern Weed Science Society.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000016941 Hill, L.; Santelmann, P. (1974) Corn Pre-Plant and Preemergence Weed Control: Test No. 10094. (Unpublished study received Jan 6, 1976 under 100-EX-38; prepared by Oklahoma State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:223432-H)

000003574 Hogue, C.W. (1971) Primary Field Evaluation of Preemergence Herbicides in Cotton and Soybeans. (Unpublished study received May 14, 1976 under 2224-50; prepared by [Mississippi State Univ. of Applied Arts and Sciences], Delta Branch Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-N)

000004207 Hogue, C.W. (1972) Primary Field Evaluation of Preemergence Herbicides in Cotton and Soybeans. (Unpublished study received May 14, 1976 under 2224-50; prepared by [Mississippi State Univ. of Applied Arts and Sciences], Delta Branch Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-O)

000016863 Holt, B.E. (1977) Obtain Data for Labeling Dual and Dual Combinations on Sorghum Treated with CGA-43089: Test No. SW OH 304 77. (Unpublisned study received Nov 8, 1977 under 100-EX-60; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:096616-H)

005017468 Humphrey, W.A.; Elmore, C.L.; Mock, T.W. (1977) Postemergence control of common groundsel in container-grown Buxus microphylla : progress report. Flower and Nursery Report 1977:6.

000014350 Humy, C. (1978) Modown 80WP and 4F Pre-Plant Incorporated. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 238281-E)

000014351 Humy, C. (1978) Modown 80WP and 4F Preplant Incorporated. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 238281-F)

000014352 Humy, C. (1978) Modown 80WP Combinations. (Unpublished study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-G)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000014349 Hurny, C. (1978) Modown 80WP Pre-Plant Incorporated. (Unpublisned study received Apr 30, 1979 under 2224-EX-5; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-D)

000016150 Hurst, H. (1975) [Weed Control Tests on Soybeans]: Test No. 10860. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AI)

000016116 Hurst, H. (1975) Standardized Weed Control Tests--Soybeans, Preemergence: Test No. 10855. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-X)

000016117 Hurst, H. (1975) 1975 Standardized Weed Control Tests: Herbicide Treatment Information: Test No. 10861. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-Y)

000016135 Hurst, H. (1975) 1975 Standardized Weed Control Tests: Test No. 10856. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095762-F)

000016136 Hurst, H. (1975) 1975 Standardized Weed Control Tests: Test No. 10858. (Unpublisned study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095762-G)

000017247 Hurst, H. (1976) [Weed Control Tests on Soybeans]: Test No. 10860. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-BE)

000016121 Hurst, H.R. (1975) 1975 Standardized Weed Control Tests: Planting Information: Test No. 10859. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AC)

005018045 Ikeuchi, M.; Yasuda, S.; Matsunaka, S. (1978) Mode of action of diphenylethers and related herbicides on mosquito larvae. Pages 470-474, In Advances in Pesticide Science: Symposia Papers Presented at the Fourth International Congress of Pesticide Chemistry; Jul 24-28, Zurich, Switzerland. Part 3: Biochemistry of Pests and Mode of Action of Pesticides, Pesticide Degradation, Pesticide Residues and Formulation Chemistry. Vol. 3. Edited by H. Geissbuehler. Oxford, England: Pergamon Press.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005019477 Ikeuchi, M.; Yasuda, S.; Matsunaka, S. (1979) Mode of action of diphenylethers and related herbicides on mosquito larvae. Pages 470-474, In Advances in Pesticide Science: Plenary Lectures and Symposia Papers Presented at the 4th International Congress of Pesticide Chemistry; Jul 24-28, 1978, Zurich, Switzerland. Vol. 3. Edited by H. Geissbuehler. Oxford, England: Pergamon Press.

000003403 Ilnicki, R. (1973) Soybeans--1973: Preemergence I. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Rutgers Univ., Dept. of Farm Crops, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-K)

005004453 Isom, W.H.; Weng, V.K. (1977) The effects of five herbicides applied at five different growth stages of Anza wheat. Pages 47-50, In Proceedings of the Western Society of Weed Science. Vol. 30. Boise, Idaho: Western Society of Weed Science.

005005471 Jennings, V.M. (1974) Soybean herbicide evaluations across Iowa in 1974. Pages 79-83, In Proceedings of the North Central Weed Control Conference. Vol. 29. Lincoln, Nebr.: North Central Weed Control Conference.

000017030 Jennings, V.M.; Barnes, D.; Vogel, A. (1977) Evaluation of Corn Herbicides at the Northwest Iowa Research Center, Sutherland, Iowa, 1977: Test No. 11520g. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-R)

000017379 Jennings, V.M.; Barnes, D.L.; Ross, K. (1975) Evaluation of Herbicides in Corn, Northwest Iowa Experimental Farms, Sutherland, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228119-Z)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000016349 Jennings, V.M.; Barnes, D.L.; Ross, K. (1975) Evaluation of Herbicides in Corn, Northwest Iowa Experimental Farm, Sutherland, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228107-AQ)

000016139 Jennings, V.M.; Barnes, D.L.; Ross, K. (1975) Evaluation of Herbicides in Soybeans, Northwest Iowa Experimental Farm, Sutherland, Iowa, 1975: Test No. 10623. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095762-K)

000016345 Jennings, V.M.; Dietz, W.P.; Henderson, J.E. (1975) Evaluation of Herbicides in Corn, Jackson County, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agricultural and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228107-AM)

000018698 Jennings, V.M.; Murdock, S.J.; Teel, A.W. (1975) Evaluation of Herbicides in Soybeans, Clark County, Iowa, 1975: Test No. 10623. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-Z)

000016895 Jennings, V.M.; Peterson, K.; Schnirring, F. (1976) Evaluation of Herbicides in Corn, Sac County, Iowa, 1976. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-I)

000016346 Jennings, V.M.; Peterson, K.R.; Schnirring, F. (1975) Evaluation of Herbicides in Corn, Sac County, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AN)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000016365	Jennings, V.M.; Staniforth, D.W.; Seim, A.L. (1975) Evaluation of Herbicides in Corn, McNay Memorial Experimental Farm, Lucas County, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BI)
000017378	Jennings, V.M.; Vincent, G.B.; Goodwin, N.J. (1975) Evaluation of Herbicides in Corn, Clinton County, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228119-Y)
000003487	Jennings, V.M.; West, J.A.; Johnson, J.C. (1975) Evaluation of Herbicides in Corn, West Pottawattamic County, Iowa, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Iowa State Univ. [of Science and Technology], Agriculture and Home Economics Experiment Station and Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-H)
005013597	Jensen, K.I.N.; Bandeen, J.D.; Machado, V.S. (1977) Studies on the differential tolerance of two lamb's-quarters selections to triazine herbicides. Canadian Journal of Plant Science 57(4):1169-1177.
000005374	Kansas State University, Agronomy Department (1975) Herbicide Performance: Grain Sorghum, 1975. (Unpublished study received Mar 28, 1979 under CO 79/7; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237942-E)
000004197	Kapusta, ; Strieker, (1977) Basic Agronomic Data, 1977, Belleville Research Center. (Unpublished study received Dec 5, 1977 under 2224-EX-5; prepared by [Southern Illinois Univ.], Belleville Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232453-B)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003541	Kapusta, ; Stricker, (1977) Modown 80WP--Sorghum: Summary of Data Collected under 2224-EUP-5. (Unpublished study received Dec 5, 1977 under 2224-EX-5; prepared by Southern Illinois Univ., Belleville Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232453-E)
000014353	Kapusta, G. (1978) [Soybean and Corn Diphenyl ether Analog Studies]. (Unpublished study including letter dated Jul 11, 1978 from G. Kapusta to Paul Kruger, received Apr 30, 1979 under 2224-EX-5; prepared by Southern Illinois Univ., Belleville Research Center, Dept. of Plant and Soil Science, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 238281-H)
000003375	Kapusta, G.; Streiker [sic], C.I. (1975) Combination Herbicides fo Corn Weed Control, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-B)
000016336	Kapusta, G.; Stricker, (1974) New Herbicides for Corn Weed Control, 1974: Test No. 10153. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AD)
000003549	Kapusta, G.; Stricker, (1976) Preplant Incorporated Soybean Herbicide Study, 1976: Table. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., mitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-K)
000003398	Kapusta, G.; Stricker, C.F. (1973) Combination Herbicides for Soybean Weed Control. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-E)
000016123	Kapusta, G.; Stricker, C.F. (1974) New Herbicides for Soybean Weed Control, 1974: Test No. 10153. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AE)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000004245 Kapusta, G.; Strieker, C.F. (1975) 1975 Progress Report: Soybean Preemergence Herbicide Study. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-E)

000004201 Kapusta, G.; Strieker, C.F. (1975) 1975 Progress Report: Soybean Preplant Incorporated Herbicide Study. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Southern Illinois Univ., Belleville Research Center, Plant and Soil Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-F)

000017524 Kapusta, G.; Strieker, C.F. (1976) Preplant Incorporated and Preemergence Corn Herbicide Study 1976: Test No. 11037. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232197-F)

000016890 Kapusta, G.; Strieker, C.F. (1976) Preplant Incorporated and Preemergence Corn Herbicide Study, 1976. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-D)

000017052 Kapusta, G.; Strieker, C.F. (1977) Corn Preemergence Herbicide Study 1977: Test No. 11448b. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Southern Illinois Univ., Plant and Soil Science Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-W)

000003497 Kelley, K. (1976) Weed Control Research Plot Data. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Kansas State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-Z)

000017683 Kern, C.L. (1978) Evaluate Dual and Tolban in Combination on Soybean: Test No. MW OH 107 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232947-D)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017631 Kern, C.L. (1978) Evaluate Dual 6E and 8E PPI and Pre Alone and in Combination with Sencor, Amiben, Modown: Test No. MW OH 103 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232946-K)

000016107 Kerr, H.D.; Royster, C.M. (1974) [Evaluation of New Herbicides and Techniques for Controlling Weeds in Soybeans]: Test No. 10253. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Missouri, Dept. of Agronomy, Delta Center, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-O)

000017676 Kincaid, L.R. (1978) To Obtain Data for Labeling Dual 8E, Dual/Lorox, Dual/Sencor, Dual/Dyanap in Soybeans: Test No. MW OH 204 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232946-C)

000016151 Knight, C. (1975) Weed Control Research Plot Data: Test No. 10742. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AK)

005005923 Kruger, P.J. (1974) Bifenox broadleaf herbicide--a status report. Pages 161-162, In Proceedings--Southern Weed Science Society. Vol. 27. Athens, Ga.: Southern Weed Science Society.

005006393 Kruger, P.J.; Ward, D.; Theissen, R.J.; Downing, C.R.; Kaufman, H.A. (1974) Bifenox: a selective weed killer. Pages 339-345, In Proceedings of the 12th British Weed Control Conference. London, England: British Crop Protection Council.

000003370 Kuc, W.J. (1977) Acute Toxicity of Modown 80% W.P. to the Bluegill Sunfish, Lepomis macrochirus Rafinesque and Rainbow Trout, Salmo gairdneri Richardson: ES Proj. # 11506-01 B,T. (Unpublished study received Mar 31, 1977 under 2224-50; prepared by Union Carbide Corp., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:229601-A)

000004166 Kushnak, G. (1975) Table 1: Wild Buckwheat Control in Winter Wheat with Modown. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by [Montana State Univ.], Central Montana Agriculture Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-I)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000003470	Kushnak, G.; Dubbs, A. (1973) Herbicide Control of Annual Broadleaved Weeds in Small Grains. (Unpublished study received May 7, 1974 under 4G1505; prepared by [Montana State Univ.], Central Montana Agricultural Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-AP)
005009715	Kuwatsuka, S. (1977) [Studies on the fate and behavior of herbicides in soil and plants.] Nippon Noyaku Gakkaishi.
005005112	Kuwatsuka, S.; Niki, Y.; Oyamada, M.; Shimotori, H.; Ohyama, H. (1976) Fate of diphenyl ether herbicides in soils and plants. Pages 223-226, In Proceedings of Fifth Asian-Pacific Weed Science Society Conference; 1975, Tokyo, Japan.
000018399	Ladlie, J.S.; Meggitt, W.F.; Bond, R.C. (1974) Preplant Incorporated: Preplant Incorporated Tank Mixes: Preplant Incorporated plus Preemergence Overlays: And Preplant Incorporated plus Postemergence Applications in Soybeans: Test No. 10070. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Michigan State Univ., Dept. of Crop and Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-Q)
000003534	Lanne, R.E. (1973) A 1973 Study of the Secondary Screening of Pre-Plant and Pre-Emergence Soybean Herbicides. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by Univ. of Illinois, Northern Illinois Agronomy Research Center, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232881-G)
005005037	Leather, G.R. (1976) Absorption, distribution and metabolism of bifenox. Dissertation Abstracts International B 36(11):5380.
005004448	Leather, G.R.; Foy, C.L. (1976) Uptake and distribution of 14C-bifenox in crop and weed species. Pages 122, In Proceedings of the Northeastern Weed Science Society. Vol. 30. Painter, Va.: Northeastern Weed Science Society.
000016936	Lee, G.A.; Alley, H.P.; Gale, A.F. (1974) Weed control in corn. Research in Weed Science 91(/Mar):35-46. (Test no. 10273; also In unpublished submission received Jan 6, 1976 under 100-EX-38; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 223432-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003451	Lipsey, (1973) Paris, Missouri Plots: [Grain Sorghum]. (Unpublished study received May 7, 1974 under 4G1505; prepared by Agri-Research Associates, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-L)
000004987	Lipsey, W. (1975) Evaluation of Modown 4L and Modown 30 WP for Weed Control in Corn and Soybeans. (Unpublished study received on unknown date under 5H1738; prepared by Agri-Research Associates, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238039-D)
005016199	Lobato dos Santos, C.A.; Leidermann, L.; Aranha, C. (1976) Estudo comparativo de diferentes formulacoes do herbicida bifenox na cultura do arroz. [Comparative study of different formulations of the herbicide bifenox in rice cultivation.] Lavoura Arrozeira. [Rice Culture.] 29(295):16-18,20,22-26,28-30,32-34.
005016200	Lobato dos Santos, C.A.; Leidermann, L.; Aranha, C. (1977) Estudo comparativo de diferentes formulacoes do herbicida Bifenox na cultura do arroz. [Comparative study of different formulations of the herbicide Bifenox on rice crops.] Lavoura Arrozeira.
000017057	Maddux, L. (1977) [Weed Control Research Plot Data and Herbicide Performance of Corn, 1977]: Test No. 11518c. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-AC)
000004165	Mason, J.; Hill, L.; Santelmann, P.W. (19??) Preplant and Preemergence Weed Control in Corn: [Report] No. C75-4. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-D)
000016339	Mason, J.; Hill, L.; Santelmann, P.W. (1975) Preplant and Preemergence Weed Control in Corn: Test No. 10777. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Oklahoma State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228107-AG)
005005801	Matthews, R.S.; O'Neil, J.B.; Kust, C.A. (1976) Weed control in soybeans based on penoxalin herbicide. Pages 456-460, In Proceedings of the Southern Weed Science Society. Vol. 29. Athens, Ga.: Southern Weed Science Society.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003338	McCall, D.A.; Greer, H.A.L.; Santelmann, P.W. (1975) PPI and Pre-emergence Weed Control Experiments in Soybeans: [Report] No. C75-16. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 223556-S)
000003568	McGlamery, M.D.; Gardner, F. (1975) Soybean Weed Control at Macomb, Illinois--1975. (Unpublished study received May 14, 1976 under 2224-50; prepared by Univ. of Illinois, Dept. of Agronomy in cooperation with Western Illinois Univ., Dept. of Agriculture, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va., CDL:224427-F)
000016154	McGlamery, M.D.; Gardner, F. (1975) Soybean Weed Control--Macomb, Illinois, 1975: Test No. 10492. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Western Illinois Univ., Dept. of Agriculture in cooperation with Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AN)
000016337	McGlamery, M.D.; Slife, F.W. (1974) Corn Herbicide Trials at Brownstown, Illinois, 1974: Test No. 10063. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-AE)
000016366	McGlamery, M.D.; Slife, F.W. (1974) Preemergence Corn Herbicide Trials at Urbana, Illinois, 1974: Test No. 10059. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BJ)
000017390	McGlamery, M.D.; Slife, F.W. (1975) Corn Herbicide Trials--Urbana, Illinois, 1975: Test No. 10497. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228119-AO)
000016912	McGlamery, M.D.; Slife, F.W. (1976) Corn Herbicide Performance at Urbana, Illinois in 1976: Test No. 11047. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232199-H)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000016367	McGlamery, M.D.; Zajicek, F. (1975) Corn Herbicide Trial--Brownstown, 1975: Test No. 10496. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228107-BL)
000017513	McGlamery, M.D.; Zajicek, F. (1976) Corn Herbicide Performance at Brownstown, Illinois in 1976: Test No. 11046. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232199-D)
000016205	McKibben, G. (1975) [Soybean Herbicides for Conventional Seedbeds--1975]: Test No. 10813. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-L)
000016132	McKibben, G. (1975) Soybean Herbicides for Conventional Seedbeds--1975: Test No. 10813. (Unpublished study received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AR)
000017058	McKibben, G. (1977) Conventional Corn Herbicides--1977: Test No. 11342. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Univ. of Illinois, Cooperative Extension Service, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-AD)
000003489	Meggitt, (1975) Preemergence Weed Control Evaluations in Corn, East Lansing, Michigan, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Michigan State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-K)
000004178	Meggitt, (1976) Preplant Weed Control Evaluations in Corn, Potterville, Michigan, 1976. (Unpublished study including rainfall data, received Mar 9, 1977 under 2224-EX-10; prepared by Michigan State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-L)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000017070	Meggitt, W. (1976) [Preplant and Preemergence Weed Control Evaluations in Corn, Potterville, Michigan, 1976]: Test No. 10875 A. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Michigan State Univ., Dept. of Crop and Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-BB)
000017386	Meggitt, W. (1976) Preplant Weed Control Evaluations in Corn, Potterville, Michigan, 1976: Test No. 10875. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Michigan State Univ., Dept. of Crop and Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228119-AJ)
000016329	Meggitt, W.; Bond, R.; Ladlie, J.; et al. (1974) Preemergence Applications for Annual Weed Control in Field Corn, E. Lansing, Michigan, 1974: Test No. 10070. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Michigan State Univ., Dept. of Crop and Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-V)
000016208	Meggitt, W.E. (1976) Preplant, Preplant Followed by Preemergence and Preemergence Weed Control Evaluations in Soybeans, Hillsdale County, Michigan, 1976: Test No. 10875. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Michigan State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095759-O)
000003385	Meggitt, W.F. (1975) Preplant Incorporated, Preemergence & Postemergence Weed Control Evaluations in Soybeans, East Lansing, Michigan, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Michigan State Univ., [Dept. of] Crop and Soil Sciences, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-P)
000016059	Meggitt, W.F. (1976) Preplant Incorporated Weed Control Evaluations in Soybeans, Potterville, Michigan, 1976: Test No. 10875. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Michigan State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095754-N)
000017048	Meggitt, W.F.; Bond, R.; Stearns, R. (1977) Preplant Incorporated, Preemergence and Postemergence Weed Control Evaluations in Corn, Michigan, 1977: Test No. 11385b. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Michigan State Univ., Dept. of Crop & Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-O)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000016213	Meggitt, W.F.; Bond, R.; Stearns, R.; et al. (1975) Preemergence & Postemergence Weed Control Evaluations in Soybeans, East Lansing, Michigan, 1975: Test No. 10511. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Michigan State Univ., Dept. of Crop & Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-X)
000017375	Meggitt, W.F.; Bond, R.; Stearns, R.; et al. (1975) Preplant Weed Control Evaluations in Corn, East Lansing, Michigan, 1975: Test No. 10511. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Michigan State Univ., Dept. of Crop & Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 228119-N)
000016212	Meggitt, W.F.; Bond, R.; Stearns, R.; et al. (1976) Preemergence Weed Control Evaluations of Soybeans, Potterville, Michigan, 1976: Test No. 10875. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Michigan State Univ., Dept. of Crop & Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-U)
000003399	Meyer, L.J.; Beason, E.J. (1973) Herbicides: Herbicide Research. (Unpublished study including letter dated Nov 20, 1973 from L.J. Meyer to Paul J. Kruger, received Oct 8, 1976 under 2224-50; prepared by Kansas State Univ., Southeast Kansas Branch Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-F)
000003452	Meyer, L.J.; Fuller, W.W.; Boren, F.W.; Beason, E.J.; Kilgore, G.L.; Dayton, A.D.; Nickell, C.D.; Walter, T.L.; Overley, C.B. (1973) Plant and Soil Science Research Results, 1973. (Southeast Kansas Branch Experiment Station, Contribution no. 29; Dept. of Agronomy, no. 1342; unpublished study received May 7, 1974 under 4G1505; prepared by Kansas State Univ., Agricultural Experiment Station, Dept. of Agronomy, Southeast Kansas Branch Experiment Station and Dept. of Statistics & Computer Science, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-M)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005004855 Michieka, R.W.; Ilnicki, R.D.; Somody, J. (1976) Weed control in soybeans with dinitroaniline herbicides followed by preemergence herbicides. Pages 19-22, In Proceedings of the Northeastern Weed Science Society. Vol. 30. Painter, Va.: Northeastern Weed Science Society.

000005889 Midwest Research Farms (1978) Modown 80WP and 4F: Soybeans--Amsoy 71. (Unpublished study received Feb 27, 1979 under 2224-EX-17; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237709-D)

000003511 Miller, ; Lueschen, ; Ford, (1977) Corn Herbicide Performance, Minnesota, 1977. (Unpublished study received Dec 5, 1977 1977 under 2224-EX-10; prepared by Univ. of Minnesota, Agricultural Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232454-D)

000004198 Miller, ; Lueschen, ; Ford, (1977) Herbicide Performance on Soybeans, Minnesota, 1977. (Unpublished study received Dec 5, 1977 under 2224-EX-5; prepared by Univ. of Minnesota, Agricultural Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232453-C)

000018714 Miller, G.R.; Ford, H.J. (1975) Herbicide Performance on Corn at Lamberton, Minnesota in 1975: Test No. 10571. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Minnesota, Agricultural Experiment Station, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-AV)

000016156 Miller, G.R.; Ford, H.J. (1975) Herbicide Performance on Soybeans at Lamberton, Minnesota in 1975: Test No. 10571. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AS)

000017606 Miller, G.R.; Ford, H.J. (1977) Herbicide Performance on Corn at Lamberton, Minnesota in 1977: Test No. 11555d. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-BR)

000017346 Miller, G.R.; Luescnen, W.E. (1975) Herbicide Performance on Corn at Waseca, Minnesota in 1975: Test No. 10571. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-AZ)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000016159 Miller, G.R.; Lueschen, W.E. (1975) Herbicide Performance on Soybeans at Waseca, Minnesota in 1975: Test No. 10571. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AX)

000015897 Miller, G.R.; Lueschen, W.E. (1976) Herbicide Performance on Corn at Waseca, Minnesota, in 1976. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-K)

000017038 Miller, G.R.; Lueschen, W.E. (1977) Herbicide Performance on Corn at Waseca, Minnesota in 1977: Test No. 11555c. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-AD)

000017338 Miller, G.R.; Warnes, D.D. (1975) Herbicide Performance on Corn at Morris, Minnesota in 1975: Test No. 10571. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Minnesota, Agricultural Experiment Station, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-AD)

000016054 Miller, G.R.; Warnes, D.D. (1975) Herbicide Performance on Soybeans at Morris, Minnesota in 1975: Test No. 10571. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095754-I)

000015434 Mitchell, W.M.; Uniatowski, R. (1975) Weed Control in Corn, Soybeans and Turf Grass: Test No. 10822. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Delaware, Dept. of Plant Science, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228115-B)

000003389 Mobil Chemical Company (19??) Chemical and Physical Properties: known admin. no.; CDL:223554-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
✓ 000003509	Mobil Chemical Company (19??) Modown 4 Flowable--Corn: Summary of Data Collected under 2224-EUP-10. Summary of studies 232454-B through 232454-D. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL:232454-A)
000003363	Mobil Chemical Company (19??) Modown 4 Flowable: Summary of Research Trials: Postemergence. Summary of studies 228016-M through 228016-N. (Unpublished study received Jan 26, 1977 under 2224-53; CDL:228016-J)
000003360	Mobil Chemical Company (19??) Modown 4 Flowable: Summary of Research Trials: Preemergence. Summary of studies 228016-C through 228016-H. (Unpublished study received Jan 26, 1977 under 2224-53; CDL:228016-B)
000003539	Mobil Chemical Company (19??) Modown 80WP--Corn: Summary of Data Collected under 2224-EUP-5. Summary of studies 232453-B through 232453-C. (Unpublished study received Dec 5, 1977 under 2224-EX-5; CDL:232453-A)
000006057	Mobil Chemical Company (19??) Reasonable Grounds in Support of this Petition: Analytical Method and Crop Residue Determinations: 6F1738; CDL:097963-A)
000003390	Mobil Chemical Company (19??) Residue Data: [Modown]. (Unpublished study received Dec 12, 1975 under unknown admin. no.; CDL: 223554-C)
000003368	Mobil Chemical Company (19??) Summary of Data: [Modown Herbicide 4 Flowable]. Summary of studies 228018-B through 228018-G. (Unpublished study received Jan 26, 1977 under 2224-53; CDL: 228018-A)
000005877	Mobil Chemical Company (1972?) The Fate of MC-4379 Fed to Mammals Residue Studies with Dogs. Undated method. (Unpublished study received on unknown date under 3G1362; CDL:097939-A)
000003524	Mobil Chemical Company (1972) Analytical Method for Determination of Impurities in Technical MC-4379. (Unpublished study received Nov 2, 1973 under 2224-EX-2; CDL:210083-E)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000003464	Mobil Chemical Company (1973) [Barley, Oats and Wheat: Efficacy of Bifenox]. Summary of studies 093987-AI through 093987-AM and 093987-AO through 093987-AY. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-AH)
000003480	Mobil Chemical Company (1973) Brookings Small Grain Herbicide Screening. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-AY)
005013523	Mobil Chemical Company (1973) Modown Herbicide. Richmond, Va.: Mobil Chemical Company. (Mobil Chemical technical bulletin no. 3)
000003576	Mobil Chemical Company (1973) Modown 80 Wettable Powder and Modown 2 Emulsifiable Concentrate: Summary of Efficacy Data (Large Scale Trials): Supporting Control of Prickly Sida in Soybeans. (Unpublished study received May 14, 1976 under 2224-50; CDL: 224427-R)
000003460	Mobil Chemical Company (1973) Rice. Summary of studies 093987-X through 093987-AG. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-W)
000003445	Mobil Chemical Company (1973) Sorghum. Summary of studies 093987-F through 093987-V. (Unpublished study received May 7, 1974 under 4G1505; CDL:093987-E)
000003532	Mobil Chemical Company (1973) Soybean Weed Control--Mobil Chemical Company. (Unpublished study received Feb 9, 1978 under 2224-50; prepared in cooperation with [Univ. of Florida], Agricultural Research Center; CDL:232881-D)
000003531	Mobil Chemical Company (1973) Summary of Research Data: Soybeans--Annual Morning Glory. Summary of studies 232881-D through 232881-L. (Unpublished study received Feb 9, 1978 under 2224-50; CDL:232881-C)
000004171	Mobil Chemical Company (1974) Large Scale Field Tests in Soybeans and Corn with Modown Herbicides. (Unpublished study received Nov 6, 1974 under 2224-50; CDL:028027-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000003429	Mobil Chemical Company (1974) Radioactive 14C-Uptake in Flooded Rice Grown in 14C-Bifenox Soil. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-C)
000003430	Mobil Chemical Company (1974) Radioactive 14C-Uptake in Small Grains Grown in 14C-Bifenox Soil. (Unpublished study received Feb 3, 1976 under 6F1738; prepared in cooperation with Rutgers Univ., Soil Testing Laboratory; CDL:095207-D)
000003543	Mobil Chemical Company (1975) Bifenox Environmental Chemistry Review. Includes method MCM 72-72 dated Sep 26, 1972; undated method entitled: Photolysis (simulated sunlight) of MC-4379 (Bifenox) in water solution. (Unpublished study including letter dated Jan 2, 1975 from D.D. Campt to A.J. Huvar, received Jan 24, 1975 under unknown admin. no.; prepared in cooperation with Cannon Laboratories, Inc.; CDL:120447-A)
000003421	Mobil Chemical Company (1975) Mobil Chemical Modown Herbicide Performance Report. (Unpublished study received Aug 8, 1975 under 2224-EX-4; CDL:226094-A)
000003374	Mobil Chemical Company (1975) Modown Herbicide Performance Report. (Unpublished study received Nov 11, 1975 under 2224-EX-4; CDL:223553-A)
000003564	Mobil Chemical Company (1975) Modown 80 Wettable Powder and Modown 2 Emulsifiable Concentrate: Summary of Efficacy Data (Research Trials): Supporting Control of Prickly Sida in Soybeans. Summary of studies 224427-B through 224427-Q. (Unpublished study received May 14, 1976 under 2224-50; CDL:224427-A)
000003412	Mobil Chemical Company (1975) Residue Data: [Bifenox]: Study No. 75017. (Unpublished study received Jan 29, 1976 under 2224-EX-14; CDL:224669-A)
000003426	Mobil Chemical Company (1975) Small Grains. (Unpublished study received Jun 3, 1976 under 2224-EX-4; CDL:226095-C)
000003424	Mobil Chemical Company (1975) Sorghum. (Unpublished study received Jun 3, 1976 under 2224-EX-4; CDL:226095-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000003577	Mobil Chemical Company (1975) Summary of and Reference to Modown 30% Wettable Powder and 2EC Data Supporting Control of Prickly Sida in Soybeans. (Unpublished study received May 14, 1976 under 2224-50; CDL:224427-S)
000003394	Mobil Chemical Company (1975) Summary of Research Trials: Soybeans--Modown 30% Wettable Powder and Modown 2 Emulsifiable Concentrate. Summary of studies 226291-B through 226291-S. (Unpublished study received Oct 8, 1976 under 2224-50; CDL: 226291-A)
000003517	Mobil Chemical Company (1975) Temporary Permit No. 2224-EXP-2G, Modown Herbicide Wettable Powder: Temporary Permit No. 2224-EXP-3G...: Fourth Quarterly Report. (Unpublished study including 17 state summaries of weed control, received Jun 4, 1975 under 2224-EX-2; CDL:210080-A,210079)
000003386	Mobil Chemical Company (1975) Three Bean Herbicide Test, Fabius, New York, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; CDL:223556-Q)
000003359	Mobil Chemical Company (1976?) Modown Herbicide 4 Flowable. Summary of studies 228016-B through 288016-E, 288016-G through 228016-J, 228016-M through 228016-N and 228016-P. (Unpublished study received Jan 26, 1977 under 2224-53; CDL:228016-A)
000003504	Mobil Chemical Company (1976) [Modown Herbicide Performance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AO)
000003505	Mobil Chemical Company (1976) [Modown Herbicide Performance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AP)
000003506	Mobil Chemical Company (1976) [Modown Herbicide Performance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AQ)
000003502	Mobil Chemical Company (1976) [Modown Herbicide Performance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AL)
000003503	Mobil Chemical Company (1976) [Modown Herbicide Performance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AN)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000004188	Mobil Chemical Company (1976) [Modown Herbicide Perfonmance Report]. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AM)
000004203	Mobil Chemical Company (1976) Modown Herbicide Performance Report. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228702-AH)
000003373	Mobil Chemical Company (1976) Modown Herbicide Performance Report. (Unpublished study received Jan 17, 1977 under 2224-EX-4; CDL:229150-A)
000003372	Mobil Chemical Company (1976) Modown Herbicide Performance Report. (Unpublished study received Jan 17, 1977 under 2224-EX-5; CDL:230077-A)
000003393	Mobil Chemical Company (1976) Modown Herbicide 10% Granular: Rice. (Unpublished study received Jan 10, 1977 under 2224-EX-11; CDL: 096900-D)
000003560	Mobil Chemical Company (1976) Modown 4 Flowable: Summary of Efficacy Data on Small Grains. Summary of studies 228702-AC through 228702-AH. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228702-AA)
000003559	Mobil Chemical Company (1976) Modown 4 Flowable: Summary of Large Scale Efficacy Data Supporting Control of Jimsonweed. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL: 228702-Z)
000003530	Mobil Chemical Company (1976) Modown 4 Flowable: Summary of Large Scale Efficacy Data Supporting Control of Morning Glory. (Unpublished study received Feb 9, 1978 under 2224-50; CDL: 232881-B)
000003436	Mobil Chemical Company (1976) Modown 4 Flowable: 2224-EUP-10: Summary of Shipment and Use: March through June 5, 1976. (Unpublished study received Jun 29, 1976 under 2224-EX-10; CDL: 096898-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003501	Mobil Chemical Company (1976) Summary of Large Scale Data Supporting Registration of Modown 4 Flowable for Control of Jimsonweed on Corn and Sorghum. Summary of studies 228701-AL through 228701-AQ. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-AK)
000003365	Mobil Chemical Company (1976) Summary of Large Scale Efficacy Data Supporting Control of Alligator Weed in Rice (Postemergence). (Unpublished study received Jan 26, 1977 under 2224-53; CDL: 223016-P)
000003362	Mobil Chemical Company (1976) Summary of Large Scale Efficacy Data Supporting Control of Annual Sedge in Rice (Preemergence). (Unpublisned study received Jan 26, 1977 under 2224-53; CDL: 223016-I)
000003409	Mobil Chemical Company (1976) Summary of Large Scale Trials: Soybeans--Modown 80% Wettable Powder and Modown 2 Emulsifiable Concentrate. (Unpublished study received Oct 8, 1976 under 2224-50; CDL:226291-T)
000003481	Mobil Chemical Company (1976) Summary of Research Data Supporting Registration of Modown 4F on Corn. Summary of studies 228701-B through 228701-T. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-A)
000003495	Mobil Chemical Company (1976) Summary of Research Data to Support Registration of Modown 4F on Sorghum. Summary of studies 228701-V through 228701-AJ. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228701-U)
000003545	Mobil Chemical Company (1976) Summary of Research Data to Support Registration of Modown 4F on Soybeans. Summary of studies 228702-B through 228702-Y. (Unpublished study received Mar 9, 1977 under 2224-EX-10; CDL:228702-A)
000003526	Mobil Chemical Company (1976) Summary of Research Trials: Tobacco. Summary of studies 232880-B through 232880-D. (Unpublished study received Feb 9, 1978 under 2224-50; CDL:232880-A)
000003512	Mobil Chemical Company (1977?) Modown 4 Flowable--Rice. Summary of Data Collected under 2224-EUP-10. Summary of studies 232454-F and 232454-K. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL:232454-E)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003510	Mobil Chemical Company (1977) Mobil Chemical Modown Herbicide Performance Report. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL:232454-C)
000003516	Mobil Chemical Company (1977) Mobil Chemical Research Report. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL: 232454-K)
000003371	Mobil Chemical Company (1977) Mobil Chemical Research Report. (Unpublished study received Apr 11, 1978 under 2224-EX-4; CDL: 233847-A)
000003514	Mobil Chemical Company (1977) Modown 4 Flowable--Sorghum: Summary of Data Collected under 2224-EUP-10. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL:232454-G)
000003515	Mobil Chemical Company (1977) Modown 4 Flowable--Soybean: Summary of Data Collected under 2224-EUP-10. Summary of studies 232454-I through 232454-J. (Unpublished study received Dec 5, 1977 under 2224-EX-10; CDL:232454-H)
000003540	Mobil Chemical Company (1977) Modown 80WP--Rice: Summary of Data Collected under 2224-EUP-5. (Unpublished study including undated letter from L. Zaunbrecker to Greg Fuselier, received Dec 5, 1977 under 2224-EX-5; CDL:232453-D)
000003419	Mobil Chemical Company (1977) Summary of Efficacy Data: Modown 80WP--Tobacco. (Unpublished study received Jan 27, 1978 under 2224-EX-14; CDL:232747-A)
000003420	Mobil Chemical Company (1977) Summary of Efficacy: Modown 4 Flowable: Soybean. (Unpublished study received Jan 24, 1978 under 2224-53; CDL:232731-A)
000003535	Mobil Chemical Company (1977) Summary of Large Scale Efficacy Data: Soybeans--Annual Morning Glory. (Unpublished study received Feb 9, 1978 under 2224-50; CDL:232881-M)
000003529	Mobil Chemical Company (1977) Summary of Large Scale Efficacy Data: Tobacco. (Unpublished study received Feb 9, 1978 under 2224-50; CDL:232880-E)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000003418	Mobil Chemical Company (1977) Summary of Preplant Incorporated Efficacy Data. (Unpublished study received Jan 16, 1978 under 2224-EX-5; CDL:232658-B)
000003525	Mobil Chemical Company (1977) Summary of Residue Data: [Project Nos. 75017 and 76057]. (Unpublished study received Feb 9, 1978 under 2224-50; CDL:232879-A)
000005878	Mobil Chemical Company (1978) [Efficacy Data on Modown]. Summary of studies 237708-B through 237708-J. (Unpublished study received Mar 2, 1979 under 2224-EX-10; CDL:237708-A)
000005886	Mobil Chemical Company (1978) Summary of Efficacy: Modown 4 Flowable (2224-EUP-17): Soybeans. (Unpublisned study received Feb 27, 1979 under 2224-EX-17; CDL:237709-A)
000017240	Moomaw, R.S. (1976) Soybean Herbicide Performance in Narrow Row Soybeans: Test No. 10540. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Nebraska, Northeast Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095769-AH)
000003457	Murray, D.; Hill, L.; Santelmann, P.W. (1973) Preemergence Weed Control in Sorghum: [Report] No. 73-18. (Unpublished study received May 7, 1974 under 4G1505; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-T)
000003382	Murray, D.S. (1975) Preemergence Weed Control: [Report] No. 75-15. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Auburn Univ., Black Belt Substation, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 223556-M)
000003392	Murray, D.S. (1975) Preplant and Preemergence Weed Control: [Report] No. 75-8. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Auburn Univ., Gulf Coast Substation, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-T)
000017244	Murray, D.S.; Soteres, J.K. (1976) Preemergence Weed Control and Delayed Planting in Soybeans: Test No. 10366. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Auburn Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-AU)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000003473 Nalewaja, J.D.; Messersmith, C.G.; Dexter, A.G. (1971) Summary of 1971 Weed Control Trials: Field Crops. (Unpublished study received May 7, 1974 under 4G1505; prepared by North Dakota State Univ., Dept. of Agronomy in cooperation with Univ. of Minnesota, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AS)

000003474 Nalewaja, J.D.; Messersmith, C.G.; Miller, S.D.; Dexter, A.G. (1973) Summary of 1973 Weed Control Trials: Field Crops. (Unpublished study received May 7, 1974 under 4G1505; prepared by North Dakota State Univ., Dept. of Agronomy in cooperation with Univ. of Minnesota, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-AT)

000017345 Nalewaja, J.D.; Messersmith, C.G.; Miller, S.D.; et al. (1975) Preemergence Weed Control in Corn, Casselton, 1975: Test No. 10802. (Unpublished study received Feb 18, 1977 under 100-583; prepared by North Dakota State Univ. of Agriculture and Applied Science and Univ. of Minnesota, Dept. of Agronomy in cooperation with Minot, Williston, Langdon and Carrington Experiment Stations, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-AX)

000003490 North American Farms (1976) Modown Herbicide Corn Plots. (Unpublished study received Mar 9, 1977 under 2224-EX-10; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228701-O)

000003491 Oakman, J.H. (1975) Research Report to Mobil Chemical Co. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Ag-Test, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-P)

000016620 Orr, J.P.; Colbert, (1978) 1978--Grain Sorghum Weed Control Trial--Consumnes College (Evaluated 7-7-78). (Unpublished study received Mar 16, 1979 under 100-604; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:237814-E)

005005111 Palmer, R.D.; Helpert, C.W. (1974) Rice weed control in the western belt of Texas. Pages 127-135, In Proceedings of the Southern Weed Science Society. Vol. 27. Athens, Ga.: Southern Weed Science Society.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000004163	Parham, J.; Greer, H.; Santelmann, P.W. (1973) PPI and Preemergence Weed Control in Soybeans (Perkins). (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-O)
000004169	Parham, J.R.; Greer, H.; Santelmann, P.W. (1973) PPI and Preemergence Weed Control in Soybeans (Coweta). (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-P)
000003552	Parochetti, J. (1975) Soybeans--1975: Preplant Incorporated, Preemergence and Postemergence Combinations. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Maryland, [Agriculture Experiment Station, Dept. of Agronomy] in cooperation with Wye Institute, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-O)
005016755	Parochetti, J.V.; Harris, T.C. (1979) Bifenox alone and with selected herbicides applied incorporated versus preemergence for soybean weed control. Pages 11-16, In Proceedings of the Northeastern Weed Science Society. Vol. 33. Painter, Va.: Virginia Truck and Ornamentals Research Station. (Department of Agronomy, Maryland Agricultural Experiment Station, scientific article no. A-2543 and contribution no. 5576)
000003414	Pennsylvania State University, Southeastern Field Research Laboratory (1974) 1974 Tobacco Herbicide Trial. (Unpublished study received Jan 29, 1976 under 2224-EX-14; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224669-C)
000016322	Peters, R.A. (1974) Summary Statement: Test No. 10305. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-J)
000015440	Peters, R.A. (1975) [Effect of Herbicides on Crabgrass and Pigweed Control and Silage Corn Yields]: Test No. 10555. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Univ. of Connecticut, Storrs Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228115-V)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005004455 Peterson, K.R.; Jennings, V.M.; Staniforth, D.W.; Fawcett, R.S. (1977) Corn herbicide evaluations across Iowa, 1977. Pages 71-78, In Proceedings, North Central Weed Control Conference. Vol. 32. Lincoln, Nebr.: North Central Weed Control Conference.

005012007 Poole, R.T.; Waters, W.E. (1974) Influence of several herbicides on yield of leatherleaf fern. Pages 279-282, In Proceedings of the Tropical Region, American Society for Horticultural Science. Vol. 18. (Florida Agricultural Experiment Stations journal series no. 5462)

005017725 Prairie Farm Rehabilitation Administration (1978) Field trials. Pages 45-49, In Prairie Farm Rehabilitation Administration, Tree Nursery, Summary Report, 1977. Indian Head, Saskatchewan, Canada: Canada Department of Regional Economic Expansion, Prairie Farm Rehabilitation Administration.

000003369 Quinn, R.J.; Paa, H. (1976) Report to Mobil Chemical Company: 21-Day Subacute Dermal Toxicity Study with Modown 4 Lb/Gal Flowable Herbicide in Albino Rabbits: IBT No. 8530-08513. (Unpublished study received Jan 26, 1977 under 2224-53; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223018-G)

000003455 Rains, L.J. (1974) Experiment 13: Bradford--Block 10: Weed Control in Grain Sorghum. (Unpublished study including letter dated Feb 5, 1974 from L.J. Rains to Bill Smith, received May 7, 1974 under 4G1505; prepared by Univ. of Missouri, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-P)

000017071 Raney, R.J. (1977) [Weed Control Research Plot Data]. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-BC)

000003538 Rausina, G. (1972) Report to Mobil Chemical Company, Research and Development Division: Four-Day Static Fish Toxicity Studies with MC-4379 Technical in Rainbow Trout and Bluegills: IBT No. R2497. (Unpublished study received Sep 1, 1977 under 2224-53; prepared by Industrial Bio-Test Laboratories, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:231481-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

005019813 Research Station, Regina, Saskatchewan (1974) Crop tolerance for new herbicides. Pages 246-246, In Research Branch Report 1973, Research Station, Regina, Saskatchewan. Ottawa, Ontario, Canada: Canada Department of Agriculture.

005006395 Research Station, Regina, Saskatchewan (1974) Weed control. Pages 246-248, In Research Branch Report 1973. Ottawa, Ontario, Canada: Agriculture Canada.

000005888 Richard, E.P., Jr. (1978) Preliminary Field Evaluation of Herbicides in Cotton and Soybeans. (Unpublished study received Feb 27, 1979 under 2224-EX-17; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237709-C)

000003496 Richardson, J.T.; Gordon, E.C.; Frans, R.E. (1976) Herbicide Field Evaluation Trials on Field Crops, 1976. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Arkansas, Agricultural Experiment Station, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-V)

000014361 Rieck, C.E.; Slack, C.H.; Bohn, J.A. (1978) Herbicide Evaluation Trials--1978. (pp. 1-3,5-10,34-42 only; unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Univ. of Kentucky, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-P)

000003400 Rieck, C.E.; Slack, C.H.; Herron, J.W. (1973) Results of Herbicide Evaluation Trials. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Univ. of Kentucky, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-G)

000016206 Rieck, C.E.; Slack, C.H.; Price, J.H.; et al. (1975) Soybean Preemergence, 1975: Test No. 10743. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Kentucky, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-M)

000004177 Rieck, C.E.; Slack, C.H.; Price, J.H.; Hayes, R.M. (1975) Results of Herbicide Evaluation Trials, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Kentucky, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-J)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000017245	Roeth, F. (1975) Results of Uniform Soybean Herbicide Trials at Clay Center, Nebraska, 1975: Test No. 10579. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Nebraska, South Central Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-BC)
000003498	Roeth, F.W. (1976) Weed Control in Irrigated Grain Sorghum. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Nebraska, Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 223701-AB)
000004205	Rogers, L. (1972) Preemergence Herbicide Screening Trial. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-H)
000004206	Rogers, L. (1972) Preemergence Herbicide Screening Trial. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-I)
000003573	Rogers, L. (1975) Experiment: Uniform Preemergence Surface Applied Herbicide Test. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], Northeast Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 224427-M)
000016548	Rogers, R.L.; et al. (1975) Preemergence Surface Applied Herbicides: Test No. 10948. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Louisiana State Univ., Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095759-W)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000003570 Rogers, R.L.; Zaunbrecher, S.J.; Vidrine, P.R.; Crawford, S.H.; Phillips, S.A.; Marshall, J.G.; Melville, D.R.; Trahan, G. (1972) Soybean Weed Control Research: Progress Report--1972. (Unpublished study received May 14, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-J)

000003401 Rogers, R.L.; Zaunbrecher, S.J.; Vidrine, P.R.; Crawford, S.H.; Phillips, S.A.; Marshall, J.G.; Melville, D.R.; Trahan, G. (1972) Soybean Weed Control Research: Progress Report--1972. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by Louisiana State Univ. [and Agricultural and Mechanical College], Dept. of Plant Pathology, Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-H)

000013400 Ross, M.A.; Williams, J.L., Jr., Bauman, T.T.; et al. (1974) Standard Soybeans II, 1974: Test No. 10164. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Purdue Univ., Botany and Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-R)

000017680 Ross, R.H. (1978) To Provide Bridging Data between Dual 6E and 8E on Soybeans: Test No. NE OH 203 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232946-I)

000017686 Ross, R.H. (1978) To Provide Bridging Data To Show Dual 6E Is Biologically Equivalent to Dual 8E and To Test Dual + Modown: Test No. NE OH 108 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 232947-H)

000016410 Ross, R.H., Jr. (1975) Evaluate Herbicide Combinations for Pre Weed Control in Soybeans: Test No. NE OH 111 75. (Unpublished study received Nov 25, 1975 under 100-EX-43; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:094829-F)

000016328 Rud, O.E. (1975) Preliminary Evaluation of Herbicides on Field and Sweet Corn: Test No. 10302. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Virginia Polytechnic Institute and State Univ., Tidewater Research and Continuing Education Center, Dept. of Plant Pathology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-U)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000004182 Russ, O.G. (1974) Weed Control Research Plot Data. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Kansas State Univ., Agronomy Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-Y)

000018689 Russ, O.G. (1975) Weed Control Research Plot Data: Test No. 10575. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095754-H)

000018693 Russ, O.G. (1975) Weed Control Research Plot Data: Test No. 10742. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-B)

000005875 Russ, O.G. (1976) Report of 1976 Herbicide Data: Keeping Up with Research....No. 29. (pp. 25-36 only; contribution no. 1630-E; unpublished study received Mar 28, 1979 under CO 79/7; prepared by Kansas State Univ., Agronomy Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237942-F)

000017059 Russ, O.G. (1977) [Weed Control Research Plot Data and Herbicide Performance of Corn, 1977]: Test No. 11518a. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-AF)

000005876 Russ, O.G. (1977) Weed Control Research Plot Data. (Unpublished study received Mar 28, 1979 under CO 79/7; prepared in cooperation with Kansas State Univ., Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond Va.; CDL: 237942-G)

000014371 Russ, O.G. (1973) Weed Control Research Plot Data. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Kansas State Univ., Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-Z)

000016105 Russ, O.G.; Axthelm, L. (1975) Report of 1975 Herbicide Data. By Kansas State Univ. of Agriculture and Applied Science, Dept. of Agronomy. Manhattan, Kans.: KSU. (Keeping up with research....no. 22; pp. 24-25 only; test no. 10742; also In unpublished submission received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-M)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000018692 Russ, O.G.; Raney, R.J. (1975) Report of 1975 Herbicide Data. By Kansas State Univ. of Agriculture and Applied Science, Dept. of Agronomy. Manhattan, Kans.: KSU. (Keeping up with research....no. 22; pp. 22-23 only; test no. 10742; also In unpublished submission received Jan 19, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-AO)

000014374 Russ, O.G.; Sloan, R.F.; Knight, C.; et al. (1975) Weed Control Research Plot Data. (Unpublished study received Jun 5, 1979 under NB 79/8; prepared by Kansas State Univ., Agronomy Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:233572-I)

000014375 Russ, O.G.; Sloan, R.F.; Knight, C.W.; et al. (1976) Weed Control Research Plot Data. (Unpublished study received Jun 5, 1979 under NB 79/8; prepared by Kansas State Univ., Agronomy Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238572-J)

005011014 Sato, K.; Tamura, J.; Kuriharar, T., inventors; Hokko Chemical Industry Co., assignee (1975) Josozai soseibutsu. [A herbicide component.] Japanese kokai 75-125030. Oct 1. 4 p. Int. Cl.

000004208 Schrader, J.W.; Haskins, W.F. (1972) The Preliminary Evaluation of Preemergence Herbicides for Use ii Soybean Production. (Unpublished study received May 14, 1976 under 2224-50; prepared by North Carolina State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:224427-Q)

000003405 Schrader, J.W.; Haskins, W.F. (1974) Experiment: H-183--The Preliminary Evaluation of Herbicides for Use in Soybean Production: Project No. 3378. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by [North Carolina State Univ.], Agricultural Experiment Station, Tidewater Research Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 226291-M)

000003406 Schrader, J.W.; Haskins, W.F. (1974) The Preliminary Evaluation of Herbicides for Use in Soybean Production. (Unpublished study received Oct 8, 1976 under 2224-50; prepared by [North Carolina State Univ., Agricultural Experiment Station, Tidewater Research Station], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:226291-N)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000016893	Schrib, J. (1975) Corn--Pre-emergence: Test No. 10647. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Texas A & M Univ., Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-G)
000004180	Schrib, J.V. (1975) Weed Control and Corn Yields from Pre-emergence Herbicide Applications, 1975. (Unpublished study including weather and application data, received Mar 9, 1977 under 2224-EX-10; prepared by Texas A & M Univ., Agricultural Experiment Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-T)
005004664	Seim, A.L.; Jennings, V.M. (1975) Soybean herbicide evaluations across Iowa in 1975. Pages 54-58, In Proceedings of the North Central Weed Control Conference. Vol. 30. Lincoln, Nebr.: North Central Weed Control Conference.
005004552	Selleck, G.W.; Sanok, W.J. (1973) Herbicide candidates for weed control in cabbage. Pages 226-229, In Proceedings of the Northeastern Weed Science Society. Vol. 32. Painter, Va.: Northeastern Weed Science Society.
000016361	Sloan, R.F. (1975) Report of 1975 Herbicide Data. By Kansas State Univ. of Agriculture and Applied Science, Dept. of Agronomy. Manhattan, Kans.: KSU. (Keeping up with research....no. 22; pp. 4-5 only; test no. 10742; also In unpublished submission received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BE)
000016149	Sloan, R.F. (1975) Weed Control Research Plot Data: Test No. 10742. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Kansas State Univ., Agronomy Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-AH)
005011918	Smith, R.J., Jr. (1974) Herbicide combinations for weed control. Rice Journal 77(7):31-32.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000005384 Smith, R.J., Jr. (1978) Effect of Selected Herbicide Treatments on Control of Aquatic Weeds in Drill-Seeded Rice: Values Are Averages of 2 Replicates: (1001-16-78): Table. (Unpublished study including letter dated Jan 15, 1979 from R.J. Smith, Jr. to Jim Caudill, received Mar 2, 1979 under 2224-EX-10; prepared by U.S. Science and Education Administration, Federal Research, Southern Region, Rice Production and Weed Control Research, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-I)

000005383 Smith, R.J., Jr. (1978) Effect of Selected Herbicide Treatments on Control of Aquatic Weeds in Water-Seeded Rice: Values Are Averages of 2 Replicates: (1001-15-78): Table. (Unpublished study including letter dated Jan 15, 1979 from R.J. Smith, Jr. to Jim Caudill, received Mar 2, 1979 under 2224-EX-10; prepared by U.S. Science and Education Administration, Federal Research, Southern Region, Rice Production and Weed Control Research, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-H)

000005382 Smith, R.J., Jr. (1978) Effect of Selected Herbicide Treatments on Control of Weeds in Drill-Seeded Rice: Values Are Averages of 2 Replicates: (1001-14-78): Table. (Unpublished study including letter dated Jan 15, 1979 from R.J. Smith, Jr. to Jim Caudill, received Mar 2, 1979 under 2224-EX-10; prepared by U.S. Science and Education Administration, Federal Research, Southern Region, Rice Production and Weed Control Research, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:237708-G)

000003449 Smith, R.L. (1974) Herbicidal Control of Weeds in Corn, Cotton, Grain Sorghum, Peanuts, and Soybeans--1973: WFES RR ARCJ 74-2. (Unpublished study received May 7, 1974 under 4G1505; prepared by [Univ. of Florida], Agricultural Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 093987-J)

005004452 Smith, W.T. (1973) Modown--a new broadleaf herbicide. Pages 31-32, In Proceedings of the Western Society of Weed Science. Vol. 26. Boise, Idaho: Western Society of Weed Science.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

005005467 Smith, W.T.; Adams, D.R.; Cihacek, D.J.; Vannoy, R.K.; Dreger, R.H. (1976) Bifenox: results of the 1975 experimental permit on small grains and sorghum. Pages 97, In Proceedings of the Western Society of Weed Science. Vol. 29. Boise, Idaho: Western Society of Weed Science.

005004666 South, D.; Crowley, R.H.; Gjerstad, D.H. (1976) Recent herbicide weed control results in pine seedbeds. Pages 300-308, In Proceedings of the Southern Weed Science Society. Vol. 29. Athens, Ga.: Southern Weed Science Society.

005011919 South, D.B.; Gjerstad, D.H.; Crowley, R.H. (1978) Bifenox: a promising new herbicide for southern pine nurseries. Southern Journal of Applied Forestry 2(1):11-14.

000017687 Stahlberg, L. (1978) Evaluate Dual + Dyanap, + Premerge, + Amiben, and Modown for Weed Control in Soybeans: Test No. 04 OH 010 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232947-J)

000017643 Stahlberg, L. (1978) Evaluate Dual and Dual Combinations on Sorghum Treated with CGA-43089 (MSOT): Test No. 04 OH 012 77. (Unpublished study received Jul 12, 1978 under 100-590; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:234416-L)

000016064 Staniforth, D. (1975) [Comparison of Dual 6E with Various Weed Control Compounds]: Test No. 10625. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095754-U)

000016063 Staniforth, D.; Miller, G. (1975) [Comparison of Dual 6E and Various Weed Control Compounds]: Test No. 10624. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095754-T)

000016368 Staniforth, D.W. (1975) Preemergence Herbicides for Corn, Ames, Iowa, 1975, No. 1: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ., Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BN)

000017248 Staniforth, D.W. (1975) Preemergence Herbicides for Soybeans. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; 095769-BL)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID	CITATION
000016215	Staniforth, D.W. (1975) Preemergence Herbicides for Soybeans: Test No. 10623. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Iowa State Univ., Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095759-AB)
000017343	Staniforth, D.W. (1975) Preplant Incorporated Herbicides for Corn, Ames, Iowa, 1975: Test No. 10713. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agricultural Experiment Station, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228112-AT)
000014354	Staniforth, D.W.; Fawcett, R.S.; Jennings, V.M.; et al. (1978) Evaluation of Soybean Herbicides at the Northern Iowa Research Center, Site #2, Kanawha, Iowa, 1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-I)
000018732	Staniforth, D.W.; Jennings, V.M. (1976) Evaluation of Preemergence Herbicides for Corn, Ames, Iowa, 1976: Test No. 11103. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232199-G)
000017036	Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S. (1977) Evaluation of Preplant Incorporated Herbicides for Corn at Ames, Iowa, 1977: Test No. 11520a. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-AA)
000014357	Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S. (1978) [Modown 80WP Preplant Incorporated and Modown 4F 80WP Preemergence on Soybeans]. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Iowa State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-L)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000014355 Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S. (1978) Evaluation of Preplant Incorporated and Preemergence Soybean Herbicides at Ames, Iowa, 1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-J)

000017033 Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S.; et al. (1977) Evaluation of Corn Herbicides at the McNay Memorial Research Center, Chariton, Iowa, 1977: Test No. 11520d. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-X)

000017037 Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S.; et al. (1977) Evaluation of Corn Herbicides at the Northern Iowa Research Center, Kanawha, Iowa, 1977: Test No. 11520c. (Unpublished study received Oct 20, 1978 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-AC)

000014356 Staniforth, D.W.; Jennings, V.M.; Fawcett, R.S.; et al. (1978) Evaluation of Soybean Herbicides at the Northeast Iowa Research Center, Nashua, Iowa, 1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Iowa State Univ., Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-K)

000016894 Staniforth, D.W.; Jennings, V.M.; Seim, A. (1976) Evaluation of Herbicides in Corn, McNay Memorial Research Center, Lucas County, Iowa, 1976. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-H)

000016896 Staniforth, D.W.; Jennings, V.M.; Studt, D.; et al. (1976) Evaluation of Herbicides for Corn at the North Iowa Experimental Farm, Kanawha, Iowa, 1976. (Unpublished study received Jun 20, 1977 under 100-590; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:230676-J)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000018740 Staniforth, D.W.; Jennings, V.M.; Studt, D.; et al. (1976) Evaluation of Herbicides for Corn at the North Iowa Experimental Farm, Kanawha, Iowa, 1976: Test No. 11102. (Unpublisned study received Sep 19, 1977 under 100-EX-58; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:233128-G)

000018744 Staniforth, D.W.; Jennings, V.M., Fawcett, R.S.; et al. (1977) Evaluation of Corn Herbicides at the Northeast Iowa Research Center, Nasnua, Iowa, 1977: Test No. 11520e. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Iowa State Univ. of Science and Technology, Agriculture and Home Economics Experiment Station, Cooperative Extension Service, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235353-P)

000003469 Stempke, L.W. (1972) Weed Control Investigations: Winter and Spring Annual Weed Control in Small Grains. (Unpublished study received May 7, 1974 under 4G1505; prepared by [Montana State Univ.], Central Agricultural Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093937-AO)

000004199 Stewart, R.E. (1977) Herbicides for weed control in western forest nurseries. Proceedings, Western Society of Weed Science 30( ): 78 - 89. (Also In unpublished submission received Apr 11, 1978 under WA 78/12; submitted by; CDL:235638-A)

000003542 Stewart, R.E.; Weatherly, H.G. (1978) Evaluation of Six Herbicides for Weed Control in Pacific Coast Forest Nurseries. (Unpublished study received Apr 11, 1978 under WA 78/12; prepared by U.S. Forest Service, Div. of Timber Management Research, a Forestry Sciences Laboratory, submitted by; CDL:235638-B)

005019964 Stott, K.G.; Jefferies, C.J.; Belcher, A. (1975) Tolerance of strawberries to new herbicides. Pages 25-26, In Long Ashton Research Station, The National Fruit and Cider Institute: Report 1974. Bristol, England: University of Bristol, Long Ashton Research Station.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003563	Strand, O.E.; Warnes, D.D. (1975) Herbicide Perfonmance on Spring Wheat at Morris, Minnesota in 1975. (Minnesota Agricultural Experiment Station, Scientific journal series, paper no. 9270; unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Minnesota, Dept. of Agronomy and Plant Genetics, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-AG).
000017603	Stroube, E.W. (1976) Corn--1976. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Ohio Agricultural Research and Development Center and Ohio State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-BN)
000018746	Sweet, R.D. (1977) Sweet Corn Follow-Up: Test No. 11433a. (Unpublished study received Oct 20, 1978 under 100-583; prepared by Cornell Univ., Dept. of Vegetable Crops, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:235354-AV)
000017804	Talbert, R.E.; Frans, R.E.; Blythe, T.O.; et al. (1971) Field Screening of New Chemicals for Herbicidal Activity, 1971. By Univ. of Arkansas, Agricultural Experiment Station. Fayetteville, Ark: UA. (Mimeograph series 195; also In unpublished submission received Mar 17, 1976 under 38329-2; submitted by Consolidated Chemical Co., Denver, Colo.; CDL:225259-T).
005010078	Talbert, R.E.; Frans, R.E.; McClelland, M.R. (1977) Field Screening of New Chemicals for Herbicidal Activity, 1977. Fayetteville, Ark.: University of Arkansas, Agricultural Experiment Station. (Arkansas Agricultural Experiment Station mimeograph series no. 253)
000014358	Talbert, R.E.; Frans, R.E.; McClelland, M.R. (1978) Field Screening of New Chemicals for Herbicidal Activity, 1978. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Univ. of Arkansas, Agricultural Experiment Station, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-M)
000004204	Talbert, R.E.; Frans, R.E.; Ramthun, L.E. (1974) Field screening of new chemicals for herbicidal activity, 1974. Fayetteville, (Mimeograph series 226; also In unpublished submission received under 2224-50; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:222427-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappoprate for
Use in Developing This Standard

MRID CITATION

005019563 Talbert, R.E.; Hodges, L. (1978) Soil factors affecting the adsorption and activity of bifenox [abstract]. Pages 283-283, In Proceedings of the Southern Weed Science Society. Vol. 31. Athens, Ga.: Southern Weed Science Society.

005005113 Tamura, J.; Hara, T. (1976) Herbicidal activity of bifenox in transplanted rice paddies. Pages 253-255, In Proceedings of Fifth Asian-Pacific Weed Science Society Conference; 1975, Tokyo, Japan.

000017679 Taylor, T.D. (1978) To Evaluate Several Dual Combinations on Soybean and To Compare A 8E with A 6E Formulation: Test No. MW OH 406 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232946-H)

005005266 Teem, D.H.; Crowley, R.H.; Buchanan, G.A.; Hoveland, C.S. (1977) Response of six Ipomoea sp. and two Cassia sp. to postemergence applied herbicides. Pages 136, In Proceedings of the Southern Weed Science Society. Vol. 30. Athens, Ga.: Southern Weed Science Society.

000014372 Thilsted, E.; Murray, D.S. (1978) Weed Control in Soybeans with Preplant Incorporated, Preemergence, and Postemergence Applied Herbicides. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Oklahoma State Univ., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 238281-AA)

000003422 Thompson, W.; Smith, S. (1977) Final Report to Mobil Chemical Company: Three-Generation Reproduction Study with Bifenox in Albino Rats: IBT No. 623-06793. (Unpublished study including letters dated Dec 19, 1977 from T. Ellison to R.M. Schweikher, and Jan 6, 1977 from J.C. Calandra to A.J. Huvar, received Dec 21, 1977 under 2224-50; prepared by Industrial Bio-Test Laboratories, Inc. in cooperation with Dob West Associates, Inc. and Donald A. Willigan, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232517-A)

000016915 Threewitt, T. (1977) To Obtain Additional Data and Cross Over [sic] Data for Dual 8E, Dual + Aatrex Prepack and Dual + Bladex for Corn: Test No. MW OH 304 77. (Unpublished study received Nov 10, 1977 under 100-EX-59; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232196-E)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000016859 Threewitt, T. (1977) To Obtain Additional Information on the Spectrum of Activity of CGA-43089: Test No. MW OH 308 77. (Unpublished study received Nov 8, 1977 under 100-EX-60; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:096616-D)

000016494 Threewitt, T. (1977) To Obtain Additional Information on the Spectrum of Activity of CGA-43089: Test No. MW OH 308 77. (Unpublished study received Nov 14, 1977 under 100-EX-61; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:096618-H)

000016493 Threewitt, T. (1977) To Obtain Data for Labeling Dual and Dual Combos on Sorghum Which Has Been Treated with CGA-43089 and To Look at CGA-43089 Spectrum of Activity: Test No. MW OH 307 77. (Unpublished study received Nov 14, 1977 under 100-EX-61; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:096618-G)

000017659 Threewitt, T. (1978) To Obtain Additional Data and Cross Over Data for Dual 8E, Dual + Aatrex Prepack and Dual + Bladex for Corn: Test No. MW OH 304 77. (Unpublished study received Mar 1, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232945-C)

000017129 Threewitt, T. (1978) To Obtain Additional Information on the Spectrum of Activity of CGA-43089: Test No. MW OH 308 77. (Unpublished study received Jul 12, 1978 under 100-590; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:234413-B)

000016571 Threewitt, T. (1978) To Obtain Data for Labeling Dual and Dual Combos on Sorghum Which Has Been Treated with CGA-43089 and To Look at CGA-43089 Spectrum of Activity: Test No. MW OH 307 77. (Unpublished study received Jul 12, 1978 under 100-597; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:234408-Q)

005007211 Thurston, R. (1965) Effect of insecticides on the green peach aphid, Myzus persicae (Sulzer), infesting burley tobacco. Journal of Economic Entomology 58(6):1127-1130.

005013690 Tosh, G.C. (1975) New herbicides for the control of weeds in direct sown rice on upland soil. Indian Journal of Farm Sciences III:60-63.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000017431 Triplett, G. (1974) H-306-4-B-74: Test No. 10307. (Unpublished study received Nov 10, 1977 under 100-EX-59; prepared by Ohio Agricultural Research and Development Center, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:232201-H)

000014363 Triplett, G.B. (1978) Weed Control in Soybeans: Project No. H-306-8-B-78. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Ohio Agricultural Research and Development Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-R)

000014364 Triplett, G.B.; Cooper, R.L. (1978) Soybean Row Width X Weed Control Requirements: Project No. H-306-9-B-78. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Ohio Agricultural Research and Development Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-S)

000014365 Triplett, G.B.; Jeffers, D. (1978) Weed Control in Relay Crop Soybesns [sic]: Project No. H-306-14-B-78. (Unpublished study received Apr 30, 1979 under 2224-EX-5; prepared by Ohio Agricultural Research and Development Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:238281-T)

005006915 Triplett, G.B., Jr. (1978) Weed control for doublecrop soybeans planted with the no-tillage method following small grain harvest. Agronomy Journal 70(4):577-581.

005020389 Turner, F.T. (1979) Soil nitrification retardation by rice pesticides. Soil Science Society of America Journal 43(5):955-957.

000017238 Tweedy, J.A.; Rutledge, T.; Kolweier, W. (1975) 1975 Progress Report: Weed Control Studies: Test No. 10693. (Unpublished study received Jan 19, 1977 under 100-533; prepared by Southern Illinois Univ., Plant and Soil Science Dept., Agronomy Research Center, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL: 095769-U)

000003416 Union Carbide Corporation (1976) Acute Toxicity of Mobil Modown Herbicide (80% Wettable Powder) to Bluegill Sunfish-- Lepomis macrochirus Rafinesque, and Rainbow Trout-- Salmo gairdneri Richardson. (Unpublished study received Nov 18, 1976 under 2224-80; submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:225901-A)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000005569 Velsicol Chemical Corporation (1972) Summary: [Tank Mixtures of Dicamba + Bromoxynil and Dicamba + Bromoxynil + MCPA for Weed Control]. (Unpublisned study received Jan 3, 1973 under 876-25; CDL:005050-A)

000016938 Vengris, J. (1974) Annual Weed Control in Field Corn, 1974: Test No. 10270. (Unpublished study received Jan 6, 1976 under 100-EX-38; prepared by Univ. of Massacnusetts, Dept. of Plant and Soil Sciences, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:223432-E)

005005799 Vengris, J. (1975) Annual weed control in field corn 1974. Pages 68-70, In Proceedings of the Northeastern Weed Science Society. Vol. 29. Painter, Va.: Northeastern Weed Science Society.

005009228 Vengris, J. (1977) Annual weed control in field corn. Pages 1-5, In Proceedings of the Northeastern Weed Science Society. Vol.31. Painter, Va.: Virginia Truck and Ornamentals Research Station. (Massachusetts Agricultural Experiment Station paper no. 2089)

000003537 Vilkas, A.G. (1977) Acute Toxicity of Bifenox 93% Technical to the Water Flea Daphnia magna Straus: ES Proj. #11506-05-02. (Unpublisned study received Sep 1, 1977 under 2224-53; prepared by Union Carbide Corp., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:231481-B)

000004193 Wax, L.M. (1973) Evaluation of Herbicides in Soybeans, 1973. (Unpublished study received Feb 9, 1978 under 2224-50; prepared by U.S. Agricultural Research Service, North Central Region in cooperation with Univ. of Illinois--Urbana, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232881-H)

000016140 Wax, L.M. (1974) Evaluation of Herbicides in Soybeans, 1974: Test No. 10100. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Illinois, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095762-N)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inappropriate for
Use in Developing This Standard

MRID CITATION

000003383 Wax, L.M. (1975) Evaluation of Herbicides in Soybeans, 1975. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Univ. of Illinois, Dept. of Agronomy in cooperation with U.S. Agricultural Research Service, North Central Region, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-N)

000003548 Wax, L.M. (1975) Evaluation of Herbicides in Soybeans, 1975. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by U.S. Agricultural Research Service, North Central Region in cooperation with Univ. of Illinois, Dept. of Agronomy, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228702-I)

000017242 Wax, L.M. (1975) Evaluation of Herbicides in Soybeans, 1975: Test No. 10491. (Unpublished study received Jan 19, 1977 under 100-583; prepared by Univ. of Illinois, Dept. of Agronomy, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095769-AM)

000003562 Webb, F.J. (1975) Barley and Wheat Herbicide Trials. (pp. 20-22 only; 1975 Wheat and Barley Review, Aug, 1975; unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Univ. of Delaware, Cooperative Extension Service, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228702-AF)

000003486 Wells, I. (1975) Herbicide Demonstration Plots. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by Van Diest Supply Co., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-G)

000003575 Wheeler, C. (1975) Tests Conducted by Charles Wheeler. (Unpublished study received May 14, 1976 under 2224-50; prepared by Riverside Chemical Co., Div. of Cook Industries, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 224427-P)

000018392 Whitwell, T.; Santelman, P.W. (1976) PPI, Pre and Sequential Treatments for Weed Control in Soybeans: Test No. 10848. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Oklahoma State Univ., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-I)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID CITATION

000003456 Wicks, G.A. (1973) Preemergence and Postemergence Herbicides for Selective Weed Control in Sorghum: Project No. 43-2. (Unpublished study received May 7, 1974 under 4G1505; prepared by Univ. of Nebraska, North Platte Station, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:093987-S)

000015359 Wiese, A.F. (1974) 1974 Preliminary Research Report: Corn Weed Control Studies: Test No. 10396. (Unpublished study received Feb 18, 1977 under 100-583; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228107-BB)

000003377 Wiese, A.F. (1975) Preemergence Trial on Corn. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Southwest Great Plains Research Center, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-F)

000018719 Williams, J.L., Jr.; Bauman, T.T.; Ross, M.A.; et al. (1975) 1975 Corn Trials: Test No. 10557. (Unpublished study received Feb 18, 1977 under 100-583; prepared by Purdue Univ., Botany & Plant Pathology Dept., submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:228119-AR)

000004191 Willigan, D.A. (1977) Bifenox: Three-Generation Reproductive Study in Charles River Albino Rats: Summary of Histopathological Observations. (Unpublished study including letter dated Dec 12, 1977 from D.A. Willigan to Theodore Ellison, received Dec 21, 1977 under 2224-50; prepared by Donald A. Willigan, Inc., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:232516-A)

005005104 Wilson, H.P.; Hines, T.E. (1974) Activities of bifenox and H-22234 in corn. Pages 7-12, In Proceedings of the Northeastern Weed Science Society. Vol. 28. Painter, Va.: Virginia Truck and Ornamentals Research Station.

000013386 Wilson, H.P.; Milbocker, D.C.; Hines, T.E. (1975) Soybeans--1975: Preplant Incorporated, Preemergence and Postemergence Combinations: Test No. 10464. (Unpublished study received Sep 13, 1977 under 100-523; prepared by Virginia Truck and Ornamentals Research Station, Virginia Beach Branch and Eastern Shore Branch, Dept. of Plant Physiology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:231563-C)

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
000003378	Wilson, H.P.; Milbocker, D.C.; Hines, T.E. (1975) 1975 Weed Science Research Summary. (Unpublished study received Dec 12, 1975 under unknown admin. no.; prepared by Virginia Truck and Ornamentals Research Station, Virginia Beach Branch and Eastern Shore Branch, Dept. of Plant Physiology, submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:223556-G)
000016110	Wilson, H.P.; Milbocker, D.C.; Hines, T.E. (1975) 1975 Weed Science Research Summary: Test No. 10464. (Incomplete study; unpublished study received Jan 19, 1977 under 100-583; prepared by Virginia Truck and Ornamentals Research Station, Virginia Beach Branch and Eastern Shore Branch, Dept. of Plant Physiology, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:095751-R)
005013383	Wiltrout, T.R.; Holt, H.A. (1975) Prospects of controlling vegetation in new forest plantations. Pages 31-36, In Proceedings of the North Central Weed Control Conference. Vol. 30. Lincoln, Nebr.: North Central Weed Control Conference.
000003493	Worsham, A.D.; Saunders, E. (1975) Preliminary Evaluation of Bifenox Formulations Preemergence on Corn, Clayton, NC. (Unpublished study received Mar 9, 1977 under 2224-EX-10; prepared by North Carolina State Univ., Crop Science Dept., submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL: 228701-R)
000019047	Wu, C.; Santelmann, P.W. (1973) Pre-plant Incorporated, Preemergence Weed Control in Cotton: Test No. Lib. No. 10092. (Unpublished study including submitting company summary, received Apr 29, 1976 under 100-523; prepared by Oklahoma State Univ.; submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:225271-AN)
000004134	Wu, C.H.; Hill, L.; Santelmann, P.W. (1975) Weed Control in Grain Sorghum: Report No. C75-2. (Unpublisned study received Mar 9, 1977 under 2224-EX-10; prepared by Oklahoma State Univ. [of Agriculture and Applied Science], submitted by Mobil Chemical Co., Industrial Chemicals, Richmond, Va.; CDL:228701-AE)
005014998	Yamada, T. (1976) Dipnenyl ether kei josozai no dojochu ni okeru dotai. [Dynamics of diphenyl ether derived herbicides in soil.] Shokubutsu Boeki. [Plant Protection.] 30(8):312-317.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Citations Judged to be Inapproprate for
Use in Developing This Standard

MRID	CITATION
005004451	Yeh, H.J.; Behrens, R. (1974) Factors causing bifenox injury to corn. Pages 130. In Proceedings--North Central Weed Control Conference. Vol. 29. Lincoln, Nebr.: North Central Weed Control Conference.

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION STANDARD BIBLIOGRAPHY

Section 3: Standard Reference Material

Farm Chemical Handbook. (1979) Meister Publishing. Willoughby, Ohio.

The Federal Insecticide, Fungicide, and Rodenticide Act, as amended in 1978, 7th U.S. Code, Chapter 135, 61 Statute 163.78 Statute 190.

Pesticide Process Encyclopedia, 1977, Noyes Data Corporation, Park Ridge, New Jersey.

Pesticide Index: Basic Information on the Chemicals Used as Active Components of Pesticides.; Martin, H., and Worthington, C.R., eds., 1977. 5th ed., British Corporate Protection Council, Worcestershire, England.

U. S. Environmental Protection Agency (1978a); Proposed Guidelines for Registering Pesticides in the United States. Federal Register, 43 (132) 29696.

U. S. Environmental Protection Agency (1978b); Proposed Guidelines for Registering Pesticides in the United States; Hazard Evaluation: Humans and Domestic Animals. Federal Register, 43 (163) 37336.

U. S. Environmental Protection Agency (1980); Regualtions for the Enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act, Title 40, Chapter 1, Part 162.

U. S. Environmental Protection Agency (in press) Proposed Guidelines for Registering Pesticides in the United States. Subparts G (Product Performance) and H (Label Development).