

ENVIRONMENTAL PROTECTION AGENCY

[FRL- OPP-]

PRELIMINARY DETERMINATION CONCERNING THE
REBUTTABLE PRESUMPTION AGAINST REGISTRATION
OF CERTAIN USES OF PESTICIDE PRODUCTS CONTAINING
2,4,5-TRICHLOROPHENOXYACETIC ACID (2,4,5-T) **FILED**
U.S. DISTRICT COURT E.D.N.Y. **CLERK'S OFFICE**
NOTICE OF INTENT TO HOLD A HEARING TO
DETERMINE WHETHER OR NOT CERTAIN USES OF
2,4,5-T SHOULD BE CANCELLED **JUL 31 1979** ★

NOTICE OF AVAILABILITY OF POSITION DOCUMENT **TIME A.M.**

I. INTRODUCTION

On April 11, 1978, the Environmental Protection Agency (EPA) issued a notice of rebuttable presumption against registration and continued registration (RPAR) of all pesticide products containing the herbicide 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) (43 FR 17116, April 21, 1978). Issuance of the RPAR initiated the Agency's public review of the registered uses of 2,4,5-T and the uses for which applications for registration are pending. Subsequently, on February 28, 1979, the Administrator ordered the emergency suspension of the use of 2,4,5-T on forests, rights-of-way, and pastures (suspended uses), thereby terminating the RPAR review as to these uses of 2,4,5-T (44 FR 15874, March 15, 1979).^{1/}

^{1/} Data and analyses developed in connection with the RPAR review led the Administrator to issue these emergency suspension orders and related notices of intent to cancel the suspended uses of 2,4,5-T. Suspension

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The RPAR review of the 2,4,5-T uses which were not subject to the suspension orders (non-suspended uses) continued. The non-suspended uses of 2,4,5-T include rice, rangeland and non-crop uses.^{2/} This notice constitutes the Agency's Notice of Determination (Notice) pursuant to 40 CFR 162.11(a)(5), concerning the RPAR review of the non-suspended uses of 2,4,5-T.

In broad summary, the Agency has determined that the two risk presumptions upon which the 2,4,5-T RPAR was based have not been rebutted. The risks to humans of oncogenic, fetotoxic, and teratogenic effects are of sufficient concern to require the Agency to consider whether offsetting economic, social or environmental benefits exist.

1/ (Footnote continued from previous page)

hearings commenced on April 19, 1979, but were discontinued on May 15, 1979 after all registrants withdrew from the hearings. The first pre-hearing conference for the cancellation proceedings was held on June 5, 1979; the formal evidentiary hearing will probably begin in the fall.

2/ The non-crop uses of 2,4,5-T include use at the following sites: airports; fences, hedgerows (not otherwise included in suspended uses, e.g., rights-of-way, pasture); lumber yards; refineries; non-food crop areas; storage areas; wastelands (not otherwise included in suspended uses, e.g., forestry); vacant lots; tank farms; industrial sites and areas (not otherwise included in suspended uses, e.g., rights-of-way).

The Agency has considered benefits information which pesticide registrants, the U.S. Department of Agriculture, and other interested parties submitted in response to the RPAR, and has analyzed the economic benefits of the non-suspended uses of 2,4,5-T. The Agency has weighed risks and benefits together in order to determine whether the risks of each use are warranted by the benefits of the use.

With respect to the non-suspended uses of 2,4,5-T, the Agency has determined: (1) that these uses appear generally to cause unreasonable adverse effects on the environment, (2) that there are uncertainties in the data relating to the risks and benefits of these uses, (3) that additional data on the risks and benefits of the non-suspended uses of 2,4,5-T will permit the Agency to determine whether or not to cancel the registrations for these uses, and (4) that such information can be acquired through a public hearing pursuant to section 6(b)(2) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended, 7 U.S.C. §§136 et seq. (FIFRA).

The remainder of this Notice and the accompanying Position Document set forth in detail the Agency's analysis of comments submitted to the Agency during the rebuttal phase of the 2,4,5-T RPAR, and the Agency's reasons and factual bases for the regulatory action it is initiating. The Notice is organized into four sections.

Section I is this introduction. Section II sets forth a general discussion of the regulatory framework within which this action is taken. Section III sets forth the Agency's determinations concluding the RPAR for the non-suspended uses of 2,4,5-T and initiating the regulatory actions which flow from these determinations. Section IV provides a brief discussion of the procedures which will be followed in implementing the regulatory actions which the Agency is initiating in this Notice.

II. Legal Background

A. General

In order to obtain a registration for a pesticide under the FIFRA, a manufacturer must demonstrate that the pesticide satisfies the statutory standard for registration. That standard requires (among other things) that the pesticide perform its intended function without causing "unreasonable adverse effects on the environment (FIFRA, section 3(c)(5)). "Unreasonable adverse effects on the environment" is defined as "any unreasonable risk to man or the environment, taking into account the economic, social and environmental costs and benefits of the use of any pesticide" (FIFRA, section 2(bb)). In effect, this standard requires a finding that the benefits of each use of the pesticide exceed the risks of use, when the

pesticide is used in accordance with the terms and conditions of registration, or in accordance with widespread and commonly recognized practice. The burden of proving that a pesticide satisfies the registration standard is on the proponents of registration (e.g., registrants, users) and continues as long as the registration remains in effect. Under section 6 of FIFRA, the Administrator is required to cancel the registration of a pesticide or modify the terms and conditions of registration whenever he determines that the pesticide no longer satisfies the statutory standard for registration.

B. The RPAR Process

The Agency created the rebuttable presumption against registration (RPAR) process to facilitate the identification of pesticide uses which may not satisfy the statutory standard for registration and to provide a structure for the gathering and evaluation of information about the risks and benefits of these uses. The structure permits public participation at major points in the evaluation process.

The regulations governing the RPAR process are set forth at 40 CFR 162.11. This section provides that a rebuttable presumption shall arise if a pesticide meets or exceeds any of the risk criteria set out in the

regulations. After an RPAR is issued, registrants and other interested persons are invited to review the data upon which the presumption is based and to submit data and information to rebut the presumption. Respondents may rebut the presumption of risk by showing that the Agency's initial determination of risk was in error, or by showing that use of the pesticide is not likely to result in any significant exposure to man or animals or plants of concern with regard to the adverse effect in question. Further, in addition to submitting evidence to rebut the risk presumption, respondents may submit evidence as to whether the economic, social and environmental benefits of the use of the pesticide subject to the presumption outweigh the risk of use.

The regulations require the Agency to conclude an RPAR by issuing a Notice of Determination in which the Agency states and explains its position on the question of whether the RPAR risk presumptions have been rebutted. If the Agency determines that the presumption is not rebutted, it considers information relating to the social, economic and environmental costs and benefits which registrants and other interested persons submitted to the Agency and other benefits information known to the Agency. After weighing the risks and the benefits

of a pesticide's use, the Agency may conclude the RPAR process either by issuing a notice of intent to cancel or deny registration(s), pursuant to FIFRA sections 6(b)(1) and 3(d)(1), or by issuing a notice of intent to hold a hearing to determine whether the registration(s) should be cancelled or applications for registration(s) denied, pursuant to FIFRA section 6(b)(2).

C. Notices of Intent to Cancel or to Hold a Hearing

FIFRA provides two mechanisms for instituting proceedings to cancel pesticides. The Administrator may issue a notice of intent to cancel a pesticide and offer registrants and other affected persons an opportunity to request a hearing. (FIFRA, section 6(b)(1)). Alternatively, the Administrator may issue a notice of intent to hold a hearing to determine whether or not the pesticide should be cancelled. (FIFRA, section 6(b)(2)).

The judgment of whether to issue a FIFRA §6(b)(1) or a §6(b)(2) notice is within the sole discretion of the Administrator (or his duly designated delegatee). If the Administrator determines that the risks of a pesticide use appear to outweigh its benefits, he may issue a notice of intent to cancel pursuant to FIFRA section 6(b)(1). If, however, the Administrator's judgment

concerning the risks and benefits of a pesticide's use is only tentative, the Administrator may issue a notice under FIFRA section 6(b)(2) declaring his intention to hold a hearing "to determine whether or not its registration should be cancelled." (FIFRA, section 6(b)(2)).

D. External Review

The statute requires the Agency to submit notices issued pursuant to FIFRA section 6 to the Secretary of Agriculture with an analysis of the impact of the proposed action on the agricultural economy (FIFRA, Section 6(b)). The Agency is required to submit these documents to the Secretary of Agriculture at least 60 days before making the notice effective by sending it to registrants or making it public. If the Secretary of Agriculture comments, in writing, within 30 days after receiving the notice, the Agency is required to publish the comments and the Administrator's responses to them along with publication of the notice. FIFRA also requires the Administrator to submit FIFRA section 6 notices, at the same time and under the same procedures as those described above for review by the Secretary of Agriculture, to the Scientific Advisory Panel for comment on the impact of the proposed action on health and the environment. (FIFRA, section 25(d)).

Although not required to do so under FIFRA, the Agency has determined that it is consistent with the general theme of the RPAR process and the Agency's overall policy of open decisionmaking to afford registrants and other interested persons an opportunity to comment on the bases for the proposed action during the time that the proposed action is under review by the Secretary of Agriculture and the Scientific Advisory Panel. Accordingly, appropriate steps are taken to make copies of the Position Document available to registrants and other interested persons at the time the decision documents are transmitted for formal external review, through publication of a notice of availability in the Federal Register, and by other means. Registrants and other interested persons are allowed the same period of time to comment--30 days--that FIFRA provides for receipt of comments from the Secretary of Agriculture and the Scientific Advisory Panel.

E. Final Notices

The determination to issue a FIFRA section 6 notice is a preliminary determination, pending external review and Agency analysis of comments received. On the basis of these comments, the Agency may withdraw the notice, issue a final notice without modification, or modify the notice, as appropriate.

After complying with these external review requirements and, if the notice is not withdrawn, accomplishing any changes in the contemplated action which are deemed appropriate as a result of any comments received, the Agency implements the desired regulatory action by sending and making public a notice of intent to cancel under FIFRA section 6(p)(1) or a notice of intent to hold a hearing under FIFRA section 6(b)(2). If related hearings are in progress, the Agency may move to consolidate proposed FIFRA section 6(b) proceedings with such ongoing FIFRA proceedings. Hearings are governed by the Agency's rules of practice for hearings under FIFRA section 6 [40 CFR 164]. At the end of the hearing, the Administrator issues his final decision regarding cancellation, which may include an order cancelling some or all uses.

III. Determinations and Initiation of Regulatory Action

The Agency has considered information on the risks associated with the non-suspended uses of 2,4,5-T, including information submitted by registrants and other interested persons in rebuttal of the 2,4,5-T RPAR. The Agency has also considered information on the economic benefits of the non-suspended uses of 2,4,5-T, including benefits information submitted by registrants and other interested persons as a part of their rebuttal submissions,

and information submitted by the United States Department of Agriculture. The Agency's assessment of the risks and benefits of the non-suspended uses of 2,4,5-T, and its conclusions and determinations as to whether any use of 2,4,5-T appears to cause unreasonable adverse effects on the environment, are set forth in detail in the Position Document accompanying this Notice. This Position Document is hereby adopted by the Agency as its statement of reasons for the determinations and actions announced in this Notice. For the reasons summarized below and developed in detail in the Position Document, the principal determinations of the Agency with respect to 2,4,5-T are as follows:

A. Determinations on Risks

The 2,4,5-T RPAR was based on information indicating that 2,4,5-T and/or its TCDD contaminant pose oncogenic, fetotoxic and teratogenic risks to the human population. As the Position Document explains, the Agency has determined that information submitted to rebut these risk criteria was insufficient to remove the Agency's concerns that 2,4,5-T and/or TCDD pose risks of fetotoxic and teratogenic effects in unborn children, and that 2,4,5-T and/or TCDD pose risks of increased incidences of cancer among exposed populations. The Agency has determined that the rangeland, rice and non-crop area uses of 2,4,5-T

create opportunities for human exposure to this chemical and TCDD and that such exposure appears generally to cause adverse human effects. The Agency has therefore concluded that the oncogenic, fetotoxic and teratogenic risks associated with the non-suspended uses of 2,4,5-T are of sufficient magnitude to require the Agency to determine whether these uses of 2,4,5-T offer social, economic or environmental benefits which offset these risks.

B. Determination of Benefits

The uses of 2,4,5-T which are subject to this RPAR fall into three categories: rangeland, rice, and non-crop uses. For each of these use categories an estimate of the economic impact of cancellation was made. These estimates are intended only as approximations based on available information.^{3/} The Agency's analysis of this information leads it to conclude that the benefits of 2,4,5-T for the three categories of uses are roughly as set forth below.^{4/}

1. Rangeland

a. Pest Infestation and Damage

Approximately 900 million acres of rangeland exist in the U.S.. Rangeland is used as grazing land for livestock, principally cattle.^{5/} Much of the rangeland acreage is

^{3/} The Agency is continuing to collect and review data relating to the benefits of 2,4,5-T for range, rice, and non-crop areas.

^{4/} For purposes of this analysis it is assumed that Silvex would also be cancelled and, therefore, would not be available as an alternative to 2,4,5-T. In view of the virtually identical toxicological characteristics of the two compounds and the similarity of the benefits of both, it is unlikely that one would be cancelled and not the other.

^{5/} Rangeland is defined as land producing forage for animal consumption, harvested by grazing, which is not cultivated, seeded, fertilized, irrigated or treated with pesticides or other such similar practices on an annual basis. Fencerows enclosing range areas are included as part of the range.

infested to some degree with one or more species of range weed. These weeds compete with the desired forage species for nutrients, water, space and light. The most serious problems occur on rangeland in the southwestern U.S.

b. Use of 2,4,5-T and Alternatives

(i) Current Use of 2,4,5-T

Each year, approximately 1.5 million acres of range-land are treated each year with 2,4,5-T to control mesquite, several oak species, and many other range weeds.^{6/} This analysis was limited to acreage in the southwestern U.S. treated aerially. These acres account for most U.S. range acres treated with 2,4,5-T.

The primary weed pests on southwestern rangelands which are treated with 2,4,5-T are mesquite and various oak species. Approximately 1.3 million pounds acid equivalent ("a.e.") of 2,4,5-T are used annually to control oaks, and approximately 340,300 pounds a.e. are used annually to control mesquite.

(ii) Non-Chemical Alternatives

Prior to the introduction and wide-scale use of chemical herbicides, various hand and mechanical methods

^{6/} Some of the range pest plants treated with 2,4,5-T: are bindweed, blackberry, blackjack oak, buckbrush, Canada thistle, chaparral, cocklebur, cresotebush, larkspur, lote, Macartney rose, mesquite, persimmon, post oak, prickly pear, sagebrush, salmonberry, salt cedar, sand shinnery oak, sumac, tarbush, winged elm, yucca.

were the exclusive tools for range weed control. These methods have not been entirely replaced by chemical herbicides. However, while hand and mechanical operations can effectively control many of the pests in a reasonably efficient manner, they do not substitute efficiently for aerial chemical treatments when large tracts of infested acreage are involved.

(iii) Chemical Alternatives

There are a variety of herbicides in addition to 2,4,5-T registered for control of the various range weeds. No single chemical is registered for control of as many weed species as 2,4,5-T. However, generally at least one alternative chemical is registered for each of the weeds which 2,4,5-T is registered to control. Thus, one or a combination of alternative chemicals is available as a substitute control for these weed species for one or more methods of application.

For aerial control of mesquite, one of the major weed species controlled with 2,4,5-T, dicamba is the only registered alternative which is effective when applied generally. Dicamba's efficacy for controlling mesquite is generally comparable to 2,4,5-T's, although there may be some areas where dicamba would be ineffective as a substitute for 2,4,5-T.

c. Economic Impacts of Cancellation
of 2,4,5-T for Rangeland

(i) User Impacts

User impacts developed by the USDA Assessment Team members are used in this analysis. These estimates were based on available information (both empirical and opinion) and form approximate measures of potential impacts. It was estimated that user impacts from substituting dicamba for 2,4,5-T could average between 10-20 million dollars per year over a 16-year period. If no control is employed during this same period, annual impacts could be in the 15-25 million dollar range.

Equally concentrated solutions of 2,4,5-T and dicamba cost \$15 and \$36 per gallon, respectively. Increased herbicide material cost is reflected in increased treatment cost. For example, at an application rate of 0.5 pounds a.e. per acre, the total cost of one aerial application

is \$4.35 per acre for 2,4,5-T, and \$6.85 per acre for dicamba.

On a per-acre basis, replacement by dicamba could result in reduced returns from beef production of \$.36-.42/acre because of the projected increased cost of control. If no control is used, a small net gain in returns may be experienced on some acres; on others, as much as a \$6.50/per acre reduction could be experienced.

(ii) Market/Consumer Impacts

Rough estimates of market/consumer impacts arising from cancellation of 2,4,5-T were derived from two models. It was estimated that the Wholesale Price Index for farm products would rise between 0.003 and 0.084 percent annually. The Consumer Index for Food and Beverages would increase by between 0.001 and 0.046 percent annually. These increases are negligible.

2. Rice

a. Pest Infestation and Damage

Weeds reduce the yield and quality of rice in the U.S. on approximately 2.5 million acres. Herbicides are used on about 98% of commercial U.S. rice acres to control rice weeds. Fields frequently receive more than one treatment per year. Most treatments are made by custom aerial applicators. It has been estimated that the total

cost of weed control and direct losses from all weed pests is several hundred million dollars per year.

Conditions favorable for growing rice also favor the growth and reproduction of many terrestrial, aquatic, and semiaquatic weeds. Rice weeds reduce yields by direct competition and reduce quality through contamination of the harvested grain with weed seeds. Weeds in rice produce an abundance of viable seed. Once these infest the land, they are difficult to remove any may remain viable in the soil for many years.

The principal weed pests for which 2,4,5-T is used include hemp sesbania, northern jointvetch, morningglory, duck salad and redstem. Without some form of weed control, significant yield and quality reductions on rice in the 2,4,5-T use area could occur.

b. 2,4,5-T and Alternatives

(i) Current Use of 2,4,5-T

Currently 2,4,5-T is used for rice weed control almost exclusively in the lower Mississippi Valley Area (Arkansas, Louisiana, Mississippi and Missouri). An estimated 300,000 acres are treated annually, of which 292,000 acres are treated aeriaily. 2,4,5-T use in the lower Mississippi Valley area accounts for about 12% of all herbicide applications to rice.

Various herbicides and cultural practices are commonly employed to control rice weeds. Current practices generally combine chemical and cultural controls. There is no information which suggests that cultural controls would provide adequate control of rice weeds in the absence of any chemical controls. Thus, it is likely that chemical alternatives to 2,4,5-T would be used in conjunction with cultural controls if 2,4,5-T were cancelled for use on rice.

Propanil and molinate are widely used rice herbicides which are likely to be used as substitutes for 2,4,5-T on some rice acres. These two herbicides are used principally to control grass weeds; however, propanil controls certain broadleaf and aquatic weeds that are controlled by 2,4,5-T. 2,4-D is another probable substitute which is already used in appreciable quantities in the four-state 2,4,5-T use area. Other herbicides, MCPA, bifenox, bentazon and oxadiazon may also be used in place of 2,4,5-T. They are all currently used on rice in other states.

(ii) Comparative Efficacy and Cost
of 2,4,5-T and Alternatives

2,4,5-T is thought to be more effective than other herbicides in controlling broadleaf, aquatic and sedge weeds that infest rice fields. Moreover, 2,4,5-T

is less injurious to non-target crops (particularly cotton and soybeans) than the other phenoxy herbicides (i.e., 2,4-D, MCPA and silvex).

Propanil is currently applied to about 95 percent of the southern rice-producing area for early season control of grasses. Propanil selectively kills barnyard-grass and many other grass, aquatic, broadleaf and sedge weeds. Propanil alone may fail to provide adequate control of the total weed population. Propanil controls hemp sesbania as effectively as 2,4,5-T; however, northern jointvetch, ducksalad, and redstem are only partially controlled by propanil. If propanil were substituted on acres now treated with 2,4,5-T, yield and quality losses could increase.

2,4-D is applied for control of many broadleaf, aquatic, and sedge weeds and would be used more frequently in the Lower Mississippi Valley area if it were not so injurious to cotton. Most rice-growing states regulate the aerial application of 2,4-D to reduce the damage to nearby cotton fields caused by spray drift. Therefore, 2,4-D may not be a viable alternative on all of the acreage now treated with 2,4,5-T. 2,4-D is applied at midseason and apparently provides control of many broad-leaf weeds as effectively as 2,4,5-T. 2,4-D does not

control northern jointvetch as effectively as 2,4,5-T and is ineffective on grass weeds.

Several other herbicides used for control of rice weeds include molinate, MCPA, bifenox, bentazon and oxadiazon. Molinate may not effectively control hemp sesbania, northern jointvetch, ducksalad, morningglory or redstem. MCPA is not used in the 2,4,5-T use area since it is thought to be relatively ineffective on hemp sesbania, northern jointvetch and Indian jointvetch. Bifenox, bentazon and oxadiazon are three new herbicides which are currently used to a limited extent; they do not appear to be as effective as 2,4,5-T on most broadleaf and aquatic weeds.

Cultural/mechanical weed control practices include planting weed-free seed, summer fallowing, seedbed preparation, crop rotation, special seeding methods, management of irrigation water, cultivation and hand-weeding (in sparse weed infestations or in small areas). Although ~~some of these methods are effective alone on~~ some rice weeds, they are usually combined with chemical herbicide treatments.

c. Economic Impact of Cancellation
of 2,4,5-T for Rice

If 2,4,5-T is cancelled for use on rice, the most likely alternatives would be either 2,4-D or propanil on the acres currently treated with 2,4,5-T.

The estimated cost of one application of 2,4,5-T in southern rice production is estimated at \$9.50 per acre compared with \$7.40 per acre for 2,4-D and \$12.90 per acre for propanil. Use of propanil may necessitate a second treatment, bringing the annual cost of control with this herbicide to \$21.80 per acre. Bentazon, molinate and oxadiazon material and application costs range from \$13.50 to \$13.90 per acre while bifenox costs are estimated at \$21.00 per acre. Cost estimates for non-chemical alternatives were not made. Some weed cost increases and production losses would occur with the cancellation of 2,4,5-T because it is thought that 2,4,5-T is more effective than the alternatives. The estimated production losses and control cost increases would amount to several million dollars per year. However, the overall impact of these increases on rice production would be minor, amounting to less than 0.1% of U.S. production. The increased costs and production losses may range from several dollars per acre to approximately \$35 per acre -- about 10% of current returns per acre.

3. Non-Crop Areas^{7/}

a. 2,4,5-T and Alternatives

2,4,5-T is registered for control of many broadleaf and herbaceous weeds^{8/} in a variety of urban and rural non-crop areas such as hedgerows, storage areas, and vacant lots. 2,4,5-T is used because of its relatively low cost, the broad spectrum of weeds it controls and its selectivity for control of undesirable plant species. Generally, the weed control achieved on these sites does not confer significant economic benefits.

Recent data on the usage of 2,4,5-T for non-crop areas is not available. However, in 1974 it was reported that 200,000 acres of grounds at industrial, commercial and institutional sites were treated with 2,4,5-T. An additional 180,000 lbs. a.e. of 2,4-D/2,4,5-T combination products were used on 90,000 acres of non-crop sites.

7/ Non-crop areas include: airports, fences, hedgerows (not otherwise included among the previously-suspended uses, e.g., rights-of-way, pasture); lumber yards; refineries; non-food crop areas; storage areas; waste-lands (not otherwise included among the previously-suspended uses, e.g., forestry); vacant lots; tank farms; industrial sites and areas (not otherwise included among the previously suspended uses, e.g., rights-of-way).

8/ The weeds include the following broadleaved plants--pigweed, ragweed, lambsquarters, horsenettle, cocklebur, morningglory--and woody plants--oaks, poplar, cottonwood, wild cherry, maple, blackberry, honeysuckle, poison ivy, wild grape.

Even combined, this area (190,000 acres) is a small proportion of the total 1.8 million acres treated with herbicides for grounds maintenance.

Numerous chemical and non-chemical controls are available as alternatives to 2,4,5-T. Chemical alternatives include 2,4-D, picloram, AMS, or amitrole. The most comparable chemical alternatives are combination products, such as 2,4-D and picloram or 2,4-D and dicamba. Soil sterilants, such as sodium borate or sodium chlorate, could control weeds controlled by 2,4,5-T. Although sterilants are effective, they are useful primarily as preventive measures. Subsequent infestations may sometimes require follow-up treatments with conventional herbicides.

Mechanical methods of control, such as mowing or shearing, or manual methods could also serve as alternatives to 2,4,5-T.

The efficacy of the alternatives compared to 2,4,5-T is not known. The spectrum of weeds controlled by any one of the alternatives is smaller than that of 2,4,5-T. However, the spectrum of weeds controlled by 2,4,5-T may be approximated fairly closely by using a combination product or by using multiple applications of different herbicides.

For ground broadcast and selective foliar sprays, 2,4,5-T is commonly used alone or in various combinations with other chemicals such as 2,4-D, picloram or dicamba. Herbicide costs for 2,4,5-T, when used alone, are about \$8.00 per acre and range from about \$30.00 to \$44.50 per acre when used in combination with other chemicals. In comparison, material costs for combinations of 2,4-D, picloram and dicamba, the most likely alternatives, range from about \$24.00 to \$42.50 per acre. Material costs for other chemical alternatives range from \$2.45 per acre (2,4-D) to about \$67.00 per acre (glyphosate). Use of these latter alternatives may require successive multiple applications with the same or several herbicides for comparable control.

b. Economic Impact of Cancellation
of 2,4,5-T for Non-Crop Areas

In general, effective alternatives of 2,4,5-T exist for non-crop sites. For users of 2,4,5-T combination products, economic impacts will be slight. Effective alternative combination products which provide equally long term control at a comparable price are registered and available. Impacts on users of 2,4,5-T applied as a single active ingredient will be felt in the form of minor increase in control costs. Most of the effective alternatives are combination products which cost more than 2,4,5-T alone.

Market and consumer impacts have not been rigorously analyzed for non-crop areas because of the lack of reliable quantitative information. However, it is believed that little if any impact is likely because effective alternatives are available and because the economic value of weed control on non-crop sites is very small.

C. Determination on Apparent Unreasonable Adverse Effects

For the reasons set forth in detail in the Position Document, the Agency has made the following determinations relating to the apparent unreasonable adverse effects of the non-suspended uses of 2,4,5-T:

1. Determinations on Rangeland Use

The Agency has determined that the use of 2,4,5-T on rangeland appears to pose risks which are greater than the social, economic, and environmental benefits of the use. The Agency has further determined that data submitted and reviewed during the RPAR review on the exposure potential and benefits of the rangeland use are ~~to some extent~~ uncertain and/or incomplete, and that the necessary information may be developed through a public hearing for the review of these questions. Accordingly, the Agency has determined that the use of 2,4,5-T on rangeland appears generally to cause unreasonable adverse effects on the

environment when used in accordance with widespread and commonly recognized practice.

2. Determinations on Rice Use

The Agency has determined that the use of 2,4,5-T on rice appears to pose risks which are greater than the social, economic and environmental benefits of the use. The Agency has further determined that data submitted and reviewed during the RPAR review on the exposure potential and benefits of the rice use are to some extent uncertain and/or incomplete, and that the necessary information may be developed through a public hearing for the review of these questions. Accordingly, the Agency has determined that the use of 2,4,5-T on rice appears generally to cause unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice.

3. Determinations on Non-Crop Uses

The Agency has determined that the use of 2,4,5-T on ~~airports~~, ~~fences~~, ~~lumber yards~~, ~~refineries~~, non-food crop areas, storage areas, wastelands, vacant lots, tank farms, industrial sites and other areas not subject to the emergency suspension orders (i.e., forests, rights-of-way, and pastures) appears to pose risks which are greater than the social, economic and environmental benefits of

the use. The Agency has further determined that data submitted and reviewed during the RPAR review on the exposure potential and benefits of the non-crop uses are to some extent uncertain and/or incomplete, and that the necessary information may be developed through a public hearing for the review of these questions. Accordingly, the Agency has determined that the non-crop uses of 2,4,5-T appear generally to cause unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice.

D. Initiation of Regulatory Actions

Based upon the determinations summarized above and developed in detail in the Position Document, the Agency is initiating the following regulatory actions, and this document shall constitute its notice of intention to initiate these actions:

- (1) issuance of a notice of intent to hold a hearing pursuant to FIFRA section 6(b)(2) to determine whether or not to cancel the rangeland use of 2,4,5-T;
- (2) issuance of a notice of intent to hold a hearing pursuant to FIFRA section 6(b)(2) to determine whether or not to cancel the rice use of 2,4,5-T; and

- (3) issuance of a notice of intent to hold a hearing pursuant to FIFRA section 6(b)(2) to determine whether or not to cancel the non-crop uses of 2,4,5-T.

E. Statement of Issues

In accordance with §164.23 of the Agency's Rules of Practice (40 CFR 164), this part of the notice states the questions on which evidence relative to the to the non-suspended uses of 2,4,5-T shall be taken at the FIFRA section 6(b)(2) hearing.

With respect to the rice, rangeland, and non-crop uses of 2,4,5-T, evidence will be taken as to the following questions:^{9/}

- (1) Whether the use of 2,4,5-T on rangeland generally causes unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice;

^{9/} Because the Agency plans to propose that this FIFRA section 6(b)(2) hearing on the non-suspended uses of 2,4,5-T be consolidated with the FIFRA section 6(b)(2) hearing on the non-suspended uses of silvex and the FIFRA section 6(b)(1) hearing, already in progress, for the suspended uses of 2,4,5-T and silvex, the consolidated hearing would review all uses of both silvex and 2,4,5-T. This statement of issues refers only to those issues which are specific to the non-suspended uses of 2,4,5-T. It is important to emphasize that this Notice is specific to the non-suspended uses, and that other issues would be addressed in the hearing as a whole.

- (2) Whether the use of 2,4,5-T on rice generally causes unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice;
- (3) Whether the non-crop uses of 2,4,5-T generally cause unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice;
- (4) Whether the rice, rangeland and non-crop uses of 2,4,5-T will generally cause unreasonable adverse effects on the environment when used in accordance with widespread and commonly recognized practice unless modifications to the terms and conditions of registration more restrictive than those currently employed are accomplished; and
- (5) Whether, if modifications to the terms and conditions of registration are accomplished, the labeling of 2,4,5-T products for these uses will comply with the provisions of FIFRA.

In considering these issues and whether or not to participate in a hearing on these issues, registrants and other interested persons should clearly understand that these and other uses of 2,4,5-T may be cancelled as a

result of evidence presented and actions taken in this hearing.

IV. Procedural Matters

As discussed above in section II of this notice, the Agency's decision to initiate the regulatory actions described in section III must be referred for review to the Secretary of Agriculture and the Scientific Advisory Panel. In accordance with FIFRA, the EPA position document setting forth in detail the reasons and factual bases for the regulatory actions which the Agency proposes and this notice of determination are being transmitted immediately to the Secretary of Agriculture and to the Scientific Advisory Panel for comment.^{10/}

The Agency also is transmitting copies of these documents to 2,4,5-T registrants, and is offering registrants and other interested parties an opportunity

^{10/} FIFRA section 6(b) also provides that upon a finding by the Administrator that suspension of a pesticide registration is necessary under section 6(c) of FIFRA to prevent an imminent hazard to human health, he may waive these external review requirements. In his Emergency Suspension Orders Regarding Registrations of Pesticide Products Containing 2,4,5-T, the Administrator made such findings (44 FR 15877, March 15, 1979). Accordingly, in the Notices of Intent to Cancel the Registrations or Change the Classifications of Pesticide Products Containing 2,4,5-T and the Statement of Reasons (44 FR 15896, March 15, 1979), the Administrator specifically invoked that authority and waived the external review requirements for the actions initiated by the Suspension Orders.

to comment on the bases for the Agency's action by making copies of the Position Document available upon request.

Interested persons may receive copies of the documents by communicating their requests to Michael Dellarco, Project Manager, Special Pesticide Review Division (TS-791) EPA, Room 447, 401 M Street, S.W., Washington, D.C. 20460.

Registrants and other interested persons will be given the same period of time to submit comments -- 30 days -- that FIFRA provides for comments from the Secretary of Agriculture and the Scientific Advisory Panel.

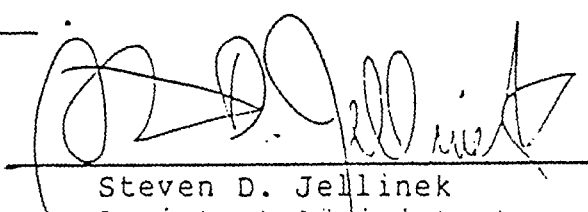
After completion of these review procedures, the Agency will consider the comments received and publish an analysis of them, together with any changes in the regulatory actions announced in this notice which it determines are appropriate.

The Agency's analysis of the comments received during the external review period may lead to withdrawal or modification of the FIFRA section 6(b)(2) notice of intent to hold a hearing. Alternatively, if the Notice is not withdrawn, the Agency intends to petition the Administrative Law Judge to consolidate the FIFRA section 6(b)(2) hearing on the non-suspended uses of 2,4,5-T with the FIFRA section 6(b)(1) hearing on the suspended uses of 2,4,5-T.

- Agency issues its final notices, it is unnecessary for registrants or other interested persons to request a hearing to contest any regulatory actions resulting from conclusion of this RPAR.

All comments on the proposed actions should be sent to the Federal Register Section, Program Support Division (TS-791), Office of Pesticide Programs, EPA, Room 447, East Tower, 401 M Street, S.W., Washington, D.C. 20460. In order to facilitate the work of the Agency and of others interested in inspecting the comments, registrants and other interested persons should submit three copies of their comments. The comments should bear the identifying notation OPP/30000/__, and should be submitted on or before _____

Dated: 7/9/79


Steven D. Jellinek
Assistant Administrator
for Toxic Substances.

DAY 3 AGENT ORANGE TRIAL
MOYER V DOW

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05

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

In re

"AGENT ORANGE"

Product Liability Litigation

DEFENDANT THE DOW CHEMICAL
COMPANY'S SUPPLEMENTAL
ANSWER TO PLAINTIFFS'
INTERROGATORIES TO
DEFENDANTS (FIRST WAVE)

MDL No. 381
(ALL CASES)

TIME A.M.
P.M.

Pursuant to Pretrial Order No. 26 dated December 26, 1980, Pretrial Order No. 33 dated February 24, 1982, the agreement with plaintiffs' counsel on May 24, 1982 (confirmed by letter dated June 4, 1982), and Rules 26(e) and 33 of the Federal Rules of Civil Procedure, defendant The Dow Chemical Company ("Dow") hereby supplements its answers to Plaintiffs' Interrogatories to Defendants (First Wave) served January 23, 1981. Dow's answer, as supplemented, is based upon information acquired to date and upon the present state of Dow's pre-trial preparation, which preparation is continuing, and, therefore, Dow reserves the right to further supplement or to amend its answer as Dow acquires additional information and completes its review and analysis of information obtained and to be obtained. Dow further reserves all objections to the admission in evidence of this answer or the subject matter thereof in any proceeding or trial in this or any other action.

Interrogatory No. 2B(ii):

2B. The name, address, telephone number, title and duties of every person employed by, under contract with or otherwise related to each Defendant who was responsible for, participated in or familiar with any of the following:

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2B(ii). Design of the Agent Orange herbicide which was the subject of the government contract.

Answer: In addition to the individuals previously identified, another person at a managerial level who was familiar with the specifications for Agents Orange and/or Purple was:

Richard C. Hoff
Position: Manager, Product Quality Assurance

Others in managerial positions who had varying degrees of familiarity with the specifications for Agents Orange and/or Purple were:

A.P. Beutel*

Dr. Keith Barrons*

K.Y. Hanson*

Al Hickman*

G.E. Holdeman
Position: Manager of Product Standards
Agricultural Chemicals, Bioproducts
Department

C.E. Otis*

W.J. Ryan*

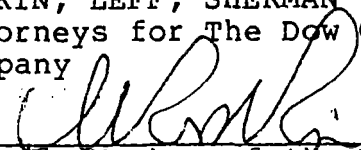
William Schambra*

Mark G. Wiltse*

* Identifying information for these individuals has previously been provided in response to interrogatory 2B(i).

Dated: November 4, 1982
Garden City, New York

RIVKIN, LEFF, SHERMAN & RADLER
Attorneys for The Dow Chemical
Company

By: 

(A Member of the Firm)

Office and Post Office Address:
100 Garden City Plaza
Garden City, New York 11530
Tel.: (516) 746-7500

8694

VERIFICATION

STATE OF NEW YORK)
) ss.:
COUNTY OF NASSAU)

Leonard L. Rivkin, being duly sworn, deposes and says:

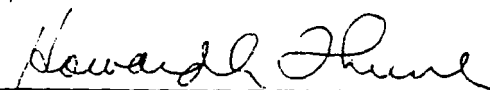
1. I am a member of the firm of RIVKIN, LEFF, SHERMAN & RADLER, attorneys for The Dow Chemical Company, a defendant in the above-entitled action, and I am the agent of that corporation for the purpose of answering the interrogatories served upon the corporation by plaintiffs on January 15, 1981 and for making this verification.

2. I have read the foregoing Supplemental Answer to Plaintiffs' Interrogatories to Defendants (First Wave) and the same is true according to the best of my knowledge, information and belief.



LEONARD L. RIVKIN

Sworn to before me on the
4th day of November, 1982.



Notary Public

HOWARD L. THUNE
Notary Public, State of New York
No. 30-9331450
Qualified in Nassau County
Commission Expires March 30, 1984

STATE OF NEW YORK)

ss.:

COUNTY OF NASSAU)

Mary Ann Edenfeld , being duly sworn, deposes and says:

That deponent is not a party to this action, is over 18 years of age and resides in Franklin Square, New York.

That on the 4th day of November, 1982, deponent served the within Defendant The Dow Chemical Company's Supplemental Answer to Plaintiffs' Interrogatories to Defendants (First Wave)

upon the attorneys below set forth representing the parties, as indicated, at the addresses shown, said addresses being designated by said attorneys for that purpose, by depositing a true copy of same, enclosed in a postpaid properly addressed wrapper in an official depository under the exclusive care and custody of the United States Post Office Department within the State of New York.

TO:

Attached Service List

Mary Ann Edenfeld

Mary Ann Edenfeld

Sworn to before me this 4th
day of November , 1982

Theresa A. Menna
NOTARY PUBLIC

— **THERESA A. MENNA**
NOTARY PUBLIC, State of New York
No. 30-4696745
Qualified in Nassau County
Term Expires March 30, 1983

8696

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& Specthrie
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Washington, D.C. 20005

Paul Esposito, Esq.
Lewis, Overbeck & Furman
135 South LaSalle Street
Suite 1060
Chicago, IL 60603

.....

"AGENT ORANGE"

U.S. DISTRICT COURT E.

OCT 7 1982

MDL No. 381

TIME A.M.

P.M

MDL No. 381

DOCUMENTS REQUESTED

1. All documents that refer or relate to proposed research, development, testing, evaluation or use of dioxin as a chemical warfare agent.

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2. All documents that refer or relate to research, development, testing, evaluation or use of dioxin as a chemical warfare agent.

3. All documents not called for in response to paragraphs 1 or 2 relating to any communication to or from Edgewood Arsenal (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the United States Army Chemical Corps Intelligence Agency ("CCIA") or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

4. All documents not called for in response to paragraphs 1 or 2 relating to any communications to or from Fort Detrick (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the CCIA or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

5. All documents not called for in response to paragraphs 1 or 2 relating to any communication to or from the United States Public Health Service (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the CCIA or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

6. All documents not called for in response to paragraphs 1, 2, 3, 4 or 5 and which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

7. All copies of studies, reports, publications and other literature which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including but not limited to any of the following:

- (a) Kimmig, J., Schulz, K.H.:
Chlorierte aromatische Zyklische Ather als

Ursache der sogenannten Chlorakne,
Naturwissenschaften 44,337-338 (1957);

- (b) Kimmig, J., Schulz, K.H.:
Berufliche Akne (sog. Chlorakne)
durch chlorierte aromatische zyklische
Ather, Dermatologica 115,540-546 (1957);
- (c) Schulz, K.H.:
Klinische und experimentelle Untersuchungen
zur Atiologie der Chloracne, Arch. Klin. Exp.
Dermatol. 206,589-596 (1957);
- (d) Bauer, H., Schulz, K.H., Spiegelberg, U.:
Berufliche Vergiftungen bei der Herstellung
von Chlorphenol-Verbindungen, Arch. Gewerbe-
pathol. Gewerbehyg. 18,538-555 (1961);
- (e) Sandermann, W., Stockmann, H., Casten, R.:
Über die Pyrolyse des Pentachlorphenols,
Chem. Ber. 90,690-692 (1957);
- (f) Bleiberg, J., Wallen, M., Brodtkin, R.,
Appelbaum, I.L.:
Industrially acquired porphyria, Arch.
Dermatol. 89,793-797 (1964); and
- (g) Jones, E.L., Krizek, H.:
A Technic for Testing Acnegenic Potency
in Rabbits, Applied to the Potent Acnegen,
2,3,7,8-Tetrachlorodibenzo-P-Dioxin,
Journal of Investigative Dermatology 511 (1962).

8. All documents that refer or relate to a meeting held to discuss and evaluate the toxicity of 2,4-D and 2,4,5-T compounds on April 26, 1963 at Edgewood Arsenal, Maryland, including but not limited to all minutes of said meeting and all data, reports, medical literature, appendices and other documents referred to in the minutes.

9. All organization charts for each division, branch, section and other unit of the CCIA and all predecessors or successors thereto from January 1, 1956 to January 1, 1972.

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10. All documents not called for in response to the preceding paragraphs that are responsive to Defendants' Phase I First Wave Interrogatories (First Set) dated January 15, 1981 (Exhibit A hereto), but which have not yet been produced to the parties by the United States of America in In re "Agent Orange" Product Liability Litigation, MDL No. 381.

Dated: Garden City, New York
October 4, 1982

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ARTHUR, DRY & KALISH

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Chief of the Judicial Panel
on Multidistrict Litigation
1120 Vermont Avenue, N.W.
Suite 1002
Washington, D.C. 20005

STATE OF NEW YORK)

ss.:

COUNTY OF NASSAU)

Mary Ann Edenfeld, being duly sworn, deposes and says:

That deponent is not a party to this action, is over 18 years of age and resides in Franklin Square, New York.

That on the 4th day of October, 1982, deponent served the within Defendants' Request for Production of Documents Directed to the United States of America Re: United States Army Chemical Corps Intelligence Agency

upon the attorneys below set forth representing the parties, as indicated, at the addresses shown, said addresses being designated by said attorneys for that purpose, by depositing a true copy of same, enclosed in a postpaid properly addressed wrapper in an official depository under the exclusive care and custody of the United States Post Office Department within the State of New York.

TO:

Attached Service List

Hon. Sol Schreiber
Milberg, Weiss, Bershad
& Specthrie
One Pennsylvania Plaza
New York, New York 10119

Mary Ann Edenfeld
Mary Ann Edenfeld

Sworn to before me this 4th
day of October, 1982

Bernadette Bonetti
NOTARY PUBLIC

BERNADETTE BONETTI
NOTARY PUBLIC, State of New York
No. 30-4734616
Qualified in Nassau County
Commission Expires March 30, 1983

8707

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----x
In re : MDL No. 381
"AGENT ORANGE" : DEFENDANTS' PHASE I
Product Liability Litigation : FIRST WAVE INTERROGATORIES
: (FIRST SET)
-----x

PLEASE TAKE NOTICE that, pursuant to Rule 33 of the Federal Rules of Civil Procedure and Pretrial Order No. 26, filed December 29, 1980, the undersigned defendants demand that the United States of America and each plaintiff herein serve and file answers to each of the following Interrogatories under oath on or before February 13, 1981, in accordance with the definitions and instructions attached hereto and made a part hereof.

INTERROGATORIES

A. RESEARCH, DEVELOPMENT, TESTING
AND EVALUATION OF HERBICIDES

1. Identify separately each unit of the United States, as defined herein, including those listed on Appendix A hereto, that engaged during the period prior to January 1, 1972 in any activities relating to the research, development, testing or evaluation of herbicides for potential use in connection with military activities, and as to each such unit, describe:

a. The nature and extent of its involvement in such activities; and

b. The duration of its involvement in such activities.

2. As to each separate unit of the United States identified in the response to Interrogatory 1, identify each

person in charge of or with responsibility for any of its activities relating to the research, development, testing or evaluation of herbicides for potential use in connection with military activities.

3. Give an organization chart for each separate unit of the United States identified in the response to Interrogatory for each period prior to January 1, 1972 during which it was involved in activities relating to the research, development, testing or evaluation of herbicides for potential use in connection with military activities.

4. Identify each communication, meeting, contract or other transaction between the United States and any of the defendants herein, or any officer, agent, employee or other person acting or purporting to act on behalf of a defendant, that concerns or relates to any research, development, testing or evaluation of herbicides prior to January 1, 1972 for potential use in connection with military activities.

5. Identify each document constituting, memorializing, disclosing, referring or relating to each communication, meeting, contract or other transaction identified in the response to Interrogatory 4.

6. Identify each project concerning the research, development, testing or evaluation of herbicides for potential use in connection with military activities, including those projects listed on Appendix B hereto.

7. As to each project identified in the response to Interrogatory 6, identify each document that constitutes, memorializes, discloses, refers or relates to the results of research,

development, testing or evaluation that was conducted pursuant to that project.

**B. SPECIFICATION, SELECTION, PURCHASE,
PROCUREMENT, PRODUCTION, SHIPMENT
AND DELIVERY OF HERBICIDES**

8. Identify separately each unit of the United States, as defined herein, including those listed on Appendix A hereto, that engaged during the period prior to January 1, 1972 in any activities relating to the specification, selection, purchase, procurement, production, shipment or delivery of herbicides for potential use in connection with military activities, and as to each such unit, describe:

- a. The nature and extent of its involvement in such activities; and
- b. The duration of its involvement in such activities.

9. As to each separate unit of the United States identified in the response to Interrogatory 8, identify each person in charge of or with responsibility for any of its activities relating to the specification, selection, purchase, procurement, production, shipment or delivery of herbicides for potential use in connection with military activities.

10. Give an organization chart for each separate unit of the United States identified in the response to Interrogatory 8 for each period prior to January 1, 1972 during which it was involved in activities relating to the specification, selection, purchase, procurement, production, shipment or delivery of herbicides for potential use in connection with military activities.

11. Identify each communication, meeting, contract or other transaction between the United States and any of the defendants herein, or any officer, agent, employee or other person acting or purporting to act on behalf of a defendant, that concerns or relates to the specification, selection, purchase, procurement, production, shipment or delivery of herbicides prior to January 1, 1972 for potential use in connection with military activities.

12. Identify each document constituting, memorializing, disclosing, referring or relating to each communication, meeting, contract or other transaction identified in response to Interrogatory 11.

13. Identify each herbicide used or tested by the United States prior to January 1, 1972 for potential use in connection with military activities, and with respect to each such herbicide:

a. State the dates during which it was used and/or tested;

b. Identify each geographical location at which it was used and/or tested; and

c. Identify the suppliers and/or manufacturers, and state the amounts contracted for by the United States and the amounts delivered to the United States by each such supplier and/or manufacturer.

14. For the period from January 1, 1961 to January 1, 1972, identify each person in charge of, with responsibility for, or who participated in or was consulted with respect to:

a. Selecting, contracting with or making changes in suppliers and manufacturers of herbicides for potential use in

connection with military activities;

b. Preparing, evaluating, selecting, modifying or approving technical specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

c. Preparing, evaluating, selecting, modifying or approving labeling specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities; and

d. Preparing, evaluating, selecting, modifying or approving shipping and financial specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities.

15. For the period from January 1, 1961 to January 1, 1972, identify each document that describes, refers or relates to:

a. The selection of, contracts with, or the making of changes in suppliers and manufacturers of herbicides for potential use in connection with military activities;

b. The preparation, evaluation, selection, modification or approval of technical specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

c. The preparation, evaluation, selection, modification or approval of labeling specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities; and

d. The preparation, evaluation, selection, modification or approval of shipping and financial specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities.

16. For the period from January 1, 1961 to January 1, 1972, identify each person in charge of, with responsibility for, or who participated in or was consulted with respect to:

a. Contacting and negotiating with suppliers and manufacturers concerning contracts for, and the purchase or procurement of herbicides for potential use in connection with military activities;

b. Evaluating, considering or determining conformity or compliance by suppliers and manufacturers with technical specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

c. Evaluating, considering or determining conformity or compliance by suppliers and manufacturers with labeling specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

d. Evaluating, considering or determining conformity or compliance by suppliers and manufacturers with shipping and financial specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities; and

e. Evaluating, considering or determining performance by suppliers and manufacturers of any contracts for herbicides selected, purchased or procured by the United States for potential use in connection with military activities.

17. For the period from January 1, 1961 to January 1, 1972, identify each document that describes, refers or relates to:

a. Contracts and negotiations with suppliers and manufacturers concerning contracts for, and the purchase or

procurement of herbicides for potential use in connection with military activities;

b. The evaluation, consideration or determination of conformity or compliance by suppliers and manufacturers with technical specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

c. The evaluation, consideration or determination of conformity or compliance by suppliers and manufacturers with labeling specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities;

d. The evaluation, consideration or determination of conformity or compliance by suppliers and manufacturers with shipping and financial specifications for each herbicide selected, purchased or procured by the United States for potential use in connection with military activities; and

e. The evaluation, consideration or determination of performance by suppliers and manufacturers of any contracts for herbicides selected, purchased or procured by the United States for potential use in connection with military activities.

18. For the period from January 1, 1961 to January 1, 1972, identify each person in charge of, with responsibility for, or who participated in or was consulted with respect to:

a. The implementation, application or use of the Defense Production Act of 1950, the Defense Materials System, or any regulations, orders, procedures, directives or priority ratings issued or available pursuant thereto, in connection with the production, procurement, purchase or shipment of herbicides for use in connection with military activities.

c. The development, consideration, evaluation, selection, modification, issuance and approval of procedures, guidelines, instructions, directives, orders or rules and regulations relating to the conditions for and all other considerations pertaining to the application of each herbicide used in connection with military activities in Southeast Asia;

d. The evaluation, consideration or determination of the effectiveness, usefulness and tactical or strategic value of each herbicide used in connection with military activities in Southeast Asia; and

e. The evaluation, consideration or determination of whether to suspend, modify or discontinue the application of any herbicide used in connection with military activities in Southeast Asia.

D. HEALTH EFFECTS AND DIOXIN

27. For the period prior to January 1, 1972, identify each person in charge of, with responsibility for, or who participated in or was consulted with respect to:

a. Evaluating, considering or determining the toxicity or health effects of dioxin, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid or any of the herbicides involved in this action;

b. Evaluating, considering or determining matters relating to the synthesis, analysis, identification, origin, destruction or removal of dioxin; and

c. Evaluating, considering or determining matters relating to the presence or possible presence of dioxin in 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid or any of the herbicides involved in this action.

28. For the period prior to January 1, 1972, identify each document that discusses, mentions, refers or relates to:

a. The toxicity or health effects of dioxin, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid or any of the herbicides involved in this action;

b. The synthesis, analysis, identification, origin, destruction or removal of dioxin; and

c. The presence or possible presence of dioxin in 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid or any of the herbicides involved in this action.

DEFINITIONS AND INSTRUCTIONS

1. The following definitions apply herein:

a. "Dioxin" means all polychlorinated dibenzo-p-dioxins (PCDDs) and all polychlorinated dibenzofurans (PCDFs).

b. "Document" is used in the broadest possible sense and means any written or graphic matter of whatever kind or nature, or any other means of preserving thoughts or expression (including, without limitation, tape recordings and/or transcriptions thereof), and all tangible things from which information can be processed or transcribed, whether originals, copies or drafts (including without limitation, non-identical copies), however produced or reproduced. Note that a document with handwritten or typewritten notes, editing or other marks, etc., is not and shall not be deemed identical to one without such notes, marks, etc. "Documents" also means all graphic, mechanical, or electronic reproductions, representations, recordings, or compilations of data of any kind, including but not limited to, drawings, charts, graphs, motion picture films, microfilms, microfiles, photographs, tape recordings,

videotapes, any transcripts or printouts produced therefrom, and all drafts of any of the foregoing.

c. "Draft" means any earlier, preliminary, preparatory or tentative version of all, or part of the document, whether or not such draft was superseded by a later draft, and whether or not the terms of the draft are the same as, or different from the terms of the final document.

d. "Herbicide" means any substance containing 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple, Agent Green and any other herbicide involved in this action.

e. "Identify" when used with reference to a natural person means state:

(i) his full name and present address (or if his present address is not known, his last known address); and

(ii) his present (or, if his present is not known, his last known) job, position, rank, and/or professional affiliations, and the same information for the time of the acts or other matters to which the Interrogatory is addressed.

f. "Identify" when used with reference to any person other than a natural person means state:

(i) the full name thereof;

(ii) the nature of the activity engaged in;

(iii) the address and principal place of business; and

(iv) if applicable, the jurisdiction under the laws

of which it has been organized and the date of such organization.

g. "Identify" when used with reference to a document means state:

- (i) its nature (e.g., letter, telegram, memorandum, chart, report, list, etc.), date, and the identity of the author and addressees;
- (ii) the identity of each person who signed the document and each person who participated in preparing the document;
- (iii) its title or heading;
- (iv) its substance; and
- (v) its present (or, if the present is not known, the last known) location and custodian.

h. "Identify" when used with reference to a communication, meeting or transaction means state:

- (i) its nature (e.g., telephone conversation, face-to-face conversation or meeting, letter, memorandum, etc.);
- (ii) the date and place thereof (and if a telephone conversation, the place each participant was located);
- (iii) the identity of each person participating in, present during, or witness to, all or any part thereof; and
- (iv) the substance thereof.

i. "Identify" when used with reference to a herbicide means state its full chemical formulation and any trade or other names by which it is known.

j. "Identify" when used with reference to a project or military operation means state any names by which it was known, its purpose or goal, the dates it began and ended, the locations at which it was conducted, and identify separately persons:

- (i) who approved or authorized its undertaking;
- (ii) who were responsible for operational management; and
- (iii) who were responsible for evaluating its results.

k. "Identify" when used in any context other than hereinaabove set forth means describe the pertinent act, work, situation, event, etc., as fully as possible, and identify each person in any way involved therein and each document or communication in which such act, work, situation, event, etc., is recorded, described, discussed or otherwise referred to.

l. "Labeling specifications" means those portions of contract specifications for a product that direct what markings shall be made on the product or its container.

m. "Person" means any natural person, individual, partnership, company, corporation, government body or any other entity.

n. "Shipping and financial specifications" means those portions of contract specifications for a product that direct the packing and manner of shipping for the product and that pertain to the price and payment terms.

o. "Technical specifications" means those portions of contract specifications that detail the chemical or other composition, performance and production standards of the product.

p. "United States" means THE UNITED STATES OF AMERICA and its offices, departments, bureaus, agencies, representatives, department heads, agency heads, bureau chiefs, agents, attorneys, employees, or any other persons, acting or purporting to act for, or on behalf of THE UNITED STATES OF AMERICA, under the authority or control of THE UNITED STATES OF AMERICA, or any one or more of the foregoing.

q. "You" means the United States, as defined above, and each plaintiff herein.

2. Each Interrogatory is to be answered to the extent of all information available to you, including all documents and other sources of knowledge within your possession, custody or control, or within the possession, custody or control of your attorneys, wherever located, and including your documents placed in independent storage facilities.

3. Unless otherwise indicated, each Interrogatory requests information for the period prior to January 1, 1972, including all information available from documents dated, prepared, sent or received, in whole or in part, prior to January 1, 1972. In addition, however, when any document refers or relates to the period prior to January 1, 1972, you should include the information from that document in your response without limitation as to when the document was dated, prepared, sent or received.

4. Each Interrogatory that refers to any group of persons is to be answered separately and with particularity as to each member of any such group.

5. Each Interrogatory that refers to herbicides is to

be answered separately and with particularity as to each applicable herbicide.

6. Except where explicitly indicated otherwise, each Interrogatory herein should be construed independently and not by reference to any other paragraph for the purpose of limitation.

7. If the answer to all or any part of an Interrogatory is not now known or you are otherwise not able to answer fully, so state in response to such Interrogatory or part thereof, state the reasons, and furnish whatever responsive information is now known or otherwise available.

8. If any privilege is claimed as to any information called for, or as to any document required to be identified by an Interrogatory:

- (i) state the nature of the privilege claimed (e.g., attorney-client, work product, etc.);
- (ii) state the basis for claiming the privilege as to the specific information or document;
- (iii) if the privilege is claimed with respect to any information, identify each person who has knowledge of such information, or to whom such information has been communicated in any way, at any time; and
- (iv) if the privilege is claimed as to any document, identify such document.

9. Certain of the Interrogatories herein seek disclosure that goes beyond the issues defendants contend should be tried in Phase I. Defendants have nevertheless included such Interrogatories because the issues for Phase I trial have not yet

been defined by the Court. Defendants reserve their right to modify or supplement these Interrogatories to the extent required by the Court's determinations as to the standards and elements of the government contract defense.

10. "And" as well as "or" shall be construed either disjunctively or conjunctively as necessary to bring within the scope of the specification all responses which might otherwise be construed to be outside its scope. "Each" shall be construed to include the word "every" and "every" shall be construed to include the word "each". "Any" shall be construed to include the word "all" and "all" shall be construed to include the word "any". "Including" shall be construed to include the phrase "without limitation".

Dated: New York, New York
January 15, 1981

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TO: MDL SERVICE LIST

APPENDIX A

EXECUTIVE BRANCH

I. Department of Defense

A. Defense Supply Agency

1. Defense General Supply Center
Richmond, Virginia
 - a. Directorate of Procurement
and Production
2. Contract Administration Services
 - a. Office of Contracts Compliance
 - b. Offices of Contract Administration
Services Regions

B. Defense Advanced Research Projects Agency

C. Department of the Army

1. Fort Detrick, Maryland
 - a. Biological Laboratories
2. Edgewood Arsenal, Maryland
 - a. Weapons Development and Engineering
Laboratories - Chemical Process Laboratory
 - b. Office of Procurement and Production
3. Camp Drum, New York
4. Dugway, Utah Proving Grounds

D. Department of the Air Force

1. Eglin Air Force Base, Florida
 - a. Armament Development and Test Center
2. Brooks Air Force Base, Texas
 - a. Occupational and Environmental Health
Laboratory
3. Wright-Patterson Air Force Base, Ohio
 - a. Aerospace Research Laboratories
 - b. Air Force Logistics Command

- 4. Directorate of Aerospace Fuels
 - a. Kelly Air Force Base, Texas
 - b. Aerospace Fuels Field Offices -
Transportation Branch
- 5. Surgeon General
- 6. Operation RANCH HAND
- E. Department of the Navy
 - 1. Naval Construction Battalion Center
Gulfport, Mississippi
- F. Military Assistance Command in Vietnam
 - 1. "203 Committee"
- G. Institute for Defense Analyses
 - 1. Project AGILE

II. Department of Commerce

- A. Business and Defense Services Administration
 - 1. Chemicals and Allied Products Division
 - 2. Office of Industrial Mobilization

III. Department of Agriculture

- A. Office of Science and Education
 - 1. Agricultural Research Service
 - a. Pesticide Regulation Division
 - b. Crop Research Division -
Crops Protection Research Branch
 - c. Texas and Puerto Rico operations
 - d. Plant Industry Station
Beltsville, Maryland
- B. Advisory Committee on 2,4,5-T
- C. Forest Service

IV. Department of Health, Education and Welfare

- A. Public Health Service
 - 1. National Institute of Environmental Health
Sciences
 - a. NIEHS Laboratories
Research Triangle, North Carolina

2. Food and Drug Administration

V. Department of State

- A. American Embassy, Republic of Vietnam

VI. Department of the Interior

VII. Executive Office of the President

- A. Office of Civil and Defense Mobilization
B. Council on Environmental Quality
C. National Security Council
 1. Central Intelligence Agency
D. Office of Science and Technology
 1. Panel on Herbicides of the President's Science
 Advisory Committee

INDEPENDENT AND QUASI-OFFICIAL AGENCIES

VIII. National Academy of Sciences

- A. "ABC Committee" (a committee to investigate biological and chemical warfare)
B. Committee on the Effects of Herbicides in Vietnam

IX. National Research Council

X. Environmental Protection Agency

- A. Advisory Committee on 2,4,5-T

MISCELLANEOUS

XI. Department of War

- A. War Research Service

APPENDIX B

1. Projects concerning the testing of herbicides for potential use during World War II;
2. Projects undertaken after World War II which were conducted in greenhouses and/or Puerto Rico;
3. Projects conducted at or involving Fort Detrick, Maryland, Eglin Air Force Base, Florida and Camp Drum, New York;
4. Projects rendering assistance to or undertaken in cooperation with foreign nations, including specifically the United Kingdom;
5. Projects undertaken pursuant to or in connection with a request by the Department of Defense in or about May 1961 to determine the feasibility of herbicide operations in Vietnam;
6. Projects concerning the possible manufacture of herbicides by or under the direct control of the United States at Weldon Springs, Missouri, Muscle Shoals, Alabama or elsewhere;
7. Operation HADES;
8. Operation RANCH HAND; and
9. Project AGILE.

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October 4, 1982

Clerk
United States District Court
Eastern District of New York
Uniondale Avenue at Hempstead Tpke.
Uniondale, New York 11533

Re: "Agent Orange" Product Liability
Litigation - MDL No. 381

Dear Sir:

Enclosed please find Defendants' Request for Production of Documents Directed to the United States of America Re: United States Army Chemical Corps Intelligence Agency. Please arrange for the filing of this document.

Very truly yours,

RIVKIN, LEFF, SHERMAN & RADLER

Leslie R. Bennett

By: Leslie R. Bennett *mae*

LRB:mae
Enc.

cc: Hon. Sol Schreiber
Attached Service List

8729

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The Counsel of Vietnam Veterans
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Patricia D. Howard
Chief of the Judicial Panel
on Multidistrict Litigation
1120 Vermont Avenue, N.W.
Suite 1002
Washington, D.C. 20005

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

FILED
IN CLERK'S OFFICE
U.S. DISTRICT COURT E.D.N.Y.

★ SEP 27 1982 ★

-----x
In re

"AGENT ORANGE"

Product Liability Litigation
-----x

: MDL No. 281
TIME 3:30 P.M.
: NOTICE OF CONFIDENTIALITY
AND UPDATED INDEX OF
: CONFIDENTIAL DOCUMENTS OF
DEFENDANT DIAMOND SHAMROCK
: CORPORATION

8732

CADWALADER, WICKERSHAM & TAFT
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

One Wall Street

New York, N. Y. 10005

(212) 908-7000

990

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

In re	:	MDL No. 381
	:	NOTICE OF CONFIDENTIALITY
"AGENT ORANGE"	:	AND UPDATED INDEX OF
	:	CONFIDENTIAL DOCUMENTS OF
Product Liability Litigation	:	DEFENDANT DIAMOND SHAMROCK
	:	<u>CORPORATION</u>

-----X

Defendant Diamond Shamrock Corporation ("Diamond Shamrock"), pursuant to the Protective Order regarding Production of Confidential Documents by Defendants dated February 6, 1981 (the "Confidentiality Order"), annexes hereto a Notice of Confidentiality (Exhibit A) and Updated Index of Confidential Documents (Exhibit B) for those documents referenced by Diamond Shamrock's Index of Documents Responding to Plaintiffs' Interrogatories to Defendants (First Wave), Revised as of June 25, 1982, which Diamond Shamrock has designated as "CONFIDENTIAL".

In accordance with paragraph 14 of the Confidentiality Order, Diamond Shamrock reserves its right to prepare and distribute further notices of confidentiality and indexes as the need arises, and to avail itself of the procedures set forth in the

Confidentiality Order for the documents identified therein.

Dated: New York, New York
September 27, 1982

CADWALADER, WICKERSHAM & TAFT

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A Member of the Firm
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(212) 908-7000

TO: ATTACHED SERVICE LIST
HON. SOL SCHREIBER

8734

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00000162	F.G. Steward		
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00000173	F.G. Steward		
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00000174	Gordon	Gene	
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00000177	Gordon	Milt	
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00000179			
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00000249			
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8735

DATE	TYPE DOCUMENT	SUBJECT
1/8/68	Cost sheet	Singleshot
4/3/67	Handwritten memo	Crop Rider 322 Costs
3/29/67	Handwritten memo	Crop Rider 322
3/20/67	Handwritten memo	Crop Rider 322
	Typed cost sheet	2,4-D Acid and Emulsifier
	Typed instructions	Tentative Specifica- tion of Dacamine Emulsifiable Concen- trate

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000434- 00000435	Pratt	F.R. Kennedy	R.A. Guidi E.J. Ferretti	2/68	Handwritten list pre- pared by Greens Bayou	Itemizing The Dacthal Plant Rehabilitation for Central Engineering
00000905	F. Gordon Steward			2/9/66	Typed report (p. 2)	Operating Comments Plant Technical Jan. 1966
00000913	F. Gordon Steward			3/9/66	Typed report (p. 2)	Operating Comments Plant Technical Feb. 1966
00000916	A.M. Hauser			4/13/66	Typed report (p. 2)	Summary of Variances March 1966; Agric. Chemicals Div. - Newark Plant
00000921	F. Gordon Steward			4/13/66	Typed report (p. 2)	Operating Comments Production March 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000926	A.M. Hauser			5/11/66	Typed report (p. 2)	Summary of Variances April 1966
00000931	F. Gordon Steward			5/9/66	Typed report (p. 2)	Operating Comments Plant Technical April 1966
00000935	A.M. Hauser			6/8/66	Typed report (p. 2)	Summary of Variances May 1966
00000940- 00000941	F. Gordon Steward			6/8/66	Typed report (pp. 2&3)	Operating Comments Plant Technical May 1966
00000947	A.M. Hauser			7/13/66	Typed report (p. 2)	Summary of Variances June 1966

8737

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
00000952	F. Gordon Steward		
00000961	F. Gordon Steward		
00000970- 00000971	F. Gordon Steward		
00000983	A.M. Hauser		
00000991	F. Gordon Steward		

14-00000

DATE	TYPE DOCUMENT	SUBJECT
7/13/66	Typed report (p. 2)	Operating Comments Plant Technical June 1966
8/10/66	Typed report (p. 3)	Operating Comments Plant Technical July 1966
9/6/66	Typed report (pp. 2&3)	Operating Comments Plant Technical August 1966
11/9/66	Typed report (p. 1)	Summary of Variances October 1966
11/9/66	Typed report (p. 2)	Operating Comments Plant Technical October 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000995	A.M. Hauser			12/7/66	Typed report (p. 3)	Summary of Variances November 1966
00000999- 00001000	F. Gordon Steward			12/7/66	Typed report (pp. 2&3)	Operating Comments Plant Technical November 1966
00001007	A.M. Hauser			1/11/67	Typed report (p. 2)	Summary of Variances December 1966
00001011	E. Bak			1/11/67	Typed report (p. 2)	Operating Comments Production December 1966
00001013- 00001014	F. Gordon Steward			1/11/67	Typed report (pp. 2&3)	Operating Comments Plant Technical December 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001067	A.M. Hauser			6/7/67	Typed report (p. 3)	Summary of Variances May 1967
00001096	F. Gordon Steward			8/9/67	Typed report (p. 2)	Operating Comments Plant Technical July 1967
00001140- 00001141	F. Gordon Steward			12/13/67	Typed report (pp. 2&3)	Operating Comments Plant Technical November 1967
00001180- 00001181	F. Gordon Steward			3/12/68	Typed report (pp. 2&3)	Operating Comments Plant Technical February 1968
00001197	A.M. Hauser			5/7/68	Typed report (p. 1)	Summary of Variances April 1968
00001211	A.M. Hauser			6/11/68	Typed report (p. 1)	Summary of Variances May 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
00001243	F. Gordon Steward		
00001257	A.M. Hauser		
00001266	A.M. Hauser		
00001727	M. Rosenfeld	F.G. Steward	R. Chonoles R.L. Urbanowski
00001756	Milton Rosenfeld	V.P. Kuceski	M.H. Wiese F.R. Kennedy F.G. Steward
00001757	Milton Rosenfeld	Wiese	F.R. Kennedy F.G. Steward

8741

DATE	TYPE DOCUMENT	SUBJECT
8/7/68	Typed report (p. 2)	Operating Comments Plant Technical July 1968
	Typed report (p. 2)	Summary of Variances September 1968
	Typed report (p. 1)	Summary of Variances October 1968
12/24/68	Typed memo	Proposed Solvent
9/18/67	Typed letter	Proposed Solvent
8/31/67	Typed letter	Proposed Solvent

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
00015949	C.T. Cross	M.J. Skeeters	R.L. Annis H. Bluestone D.R. Geaman A. Hlynsky T.F. Holder C.E. Entemann G.F. Rugar N.V. Seegar L.P. Seyb
00016077	S.B. Honour	C.T. Cross	H.E. Everson J.S. Cort R.G. Buettner S.S. Savage R.C. Sutter
00022182	S.J. Kovacs		

DATE	TYPE DOCUMENT	SUBJECT
1/16/59	Typed memo	2,5-Bis (Hydroxy- methyl) Trichloro- phenols Patent Dept. Docket No. 886
1/26/67	Typed memo	Diamond Japanese Patent No. 285,063 Proposed License
1/21/66	Typed form	Foreign Patent Activity

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000149- 00000150	M. Rosenfeld	F. Gordon Steward	R. Chonoles G.L. Pratt	6/19/69	Typed memo	4# Singleshot Formulation
00000151	Gordon	Bob	M. Rosenfeld	5/1/69	Handwritten memo	Replacement for Emulsifier
00000152	E.G. Weierich	F. Gordon Steward	J. Fleming	4/29/69	Typed letter	Answer to Steward's Request for Substi- tute for Emulsifier
00000154	F. Gordon Steward	E. Weierich	R. Chonoles J. Flemming G.L. Pratt	3/10/69	Typed memo	Substitute Amine For Singleshot
00000162	F.G. Steward			1/8/68	Cost sheet	Singleshot
00000164- 00000165	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	11/6/67	Typed memo	Singleshot
00000166	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	9/14/67	Typed memo	Singleshot-Patent Situation
00000167	M. Rosenfeld	F.G. Steward	F.R. Kennedy	8/15/67	Typed memo	Patent Infringement- Singleshot

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000168	F.G. Steward	F.R. Kennedy	M. Rosenfeld	7/26/67	Typed memo	Patent Infringement- Singleshoot
00000169	F.G. Steward			1/17/63	Cost sheet	Singleshoot
00000170- 00000171	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	6/22/67	Handwritten note	Patent Infringement- by Singleshoot-Armour Decamine Patent
00000173	F. G. Steward			4/3/67	Handwritten memo	Crop Rider 322 Costs
00000174	Gordon	Gene		3/29/67	Handwritten memo	Crop Rider 322

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000175	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	3/23/67	Typed memo	Crop Rider 322-the Results of Test
00000176	R.L. Urbanowski	F.G. Steward	R.A. Guidi F.R. Kennedy B.A. Sprayberry	3/21/67	Typed memo	Crop Rider 322 Singleshoot
00000177	Gordon	Milt		3/20/67	Handwritten memo	Crop Rider 322
00000178	R.A. Guidi	F.R. Kennedy		2/27/67	Typed memo	Request for "Cold Storage Stability Data" for Crop Rider 322
00000179					Typed cost sheet	2,4-D Acid and Emulsifier
00000180- 00000181	M. Rosenfeld	F.G. Steward	F.R. Kennedy	1/3/67	Typed memo	Singleshoot-Progress Report on Search Through Armour Ethomeens to Find a Suitable Replacement for Atlox G-3780A

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000249					Typed instructions	Tentative Specifica- tion of Dacamine Emulsifiable Concen- trate
00000404- 00000411	F. Gordon Steward	S. Greenbaum	R. Chonoles W.A. Goodloe G.M. Salvatto	2/19/69	Handwritten report	Ester Production at Newark
00000434- 00000435	Pratt	F.R. Kennedy	R.A. Guidi E.J. Ferretti	2/68	Handwritten list prepared by Greens Bayou	Itemizing the Dacthal Plant Rehabilitation for Central Engineering
00000651					Typed chart	Agricultural Chemicals Division Plant Capacities - 1967
00000652					Typed data	Agricultural Chemicals Division Conversion Data- 1967
00000653	R.L. Urbanowski	H.V. Jackson F.G. Steward	R.A. Guidi F.R. Kennedy J.R. Trocki	12/18/67	Typed memo	Plant Capacities and Conversion Data

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000654						Duplicate of #00000651
00000655						Duplicate of #00000652
00000657- 00000659	R.L. Urbanowski	F.G. Steward	R.A. Guidi F.R. Kennedy	9/22/66	Typed memo and attached table and data	Newark Plant Capacity
00000758	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner P.E. Johnson	7/10/69	Typed memo	Dacamine emulsifiers

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000759	P.E. Johnson	P.J. Koskey	J.A. Ignatoski B.D. Knoblock F.G. Steward H.S. Weiner	7/11/69	Typed memo	Substitution of Ingredients in Proprietary Herbicides
00000760	F. G. Steward	P.E. Johnson	R. Chonoles R.A. Guidi P.J. Koskey M. Rosenfeld H.S. Weiner	5/26/69	Typed memo	Dacamine Raw Materials
00000761	Milt	Gordon		3/31/69	Handwritten memo	Emulsifiers for Dacamines in Mexico
00000762	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	3/10/69	Typed memo	Dacamine Emulsifiers
00000763	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles P.J. Koskey	3/10/69	Typed letter	Sample of Emulsifier
00000764- 00000765	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	2/27/69	Handwritten memo	Dacamine in Mexico
00000766	Gordon	M.R.		2/13/69	Handwritten memo	Dacamine in Mexico

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000767	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner	1/31/69	Typed memo	Dacamine Emulsifiers
00000768	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	12/13/68	Typed memo	Dacamine Manufacture in Mexico
00000769	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	11/27/68	Typed memo	Dacamine Manufacture in Mexico
00000770	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock P.J. Koskey H.S. Weiner	11/27/68	Typed letter	Sample of Amine and 2# Dacamine
00000771	Paul J. Koskey	F.G. Steward	B.D. Knoblock R.A. Guidi H.S. Weiner	11/19/68	Typed memo	2,4-D Acid - Polaquimia - Additional Samples
00000773- 00000775	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Weiner M. Rosenfeld	11/5/68	Typed memo	Dacamine Manufacture in Mexico

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000776	G.L. Pratt			6/13/67	Typed report	Spec. No: 71-3231 Product: 2# Dacamine- D Weed Killer (Oil Soluble)
00000777	Supplier				Printed chart	Aromatics/Solvency Tests
00000779	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner V. Contreras R.A. Guidi	10/9/68	Typed memo	Dacamine Manufacture in Mexico
00000780	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock S.S. Savage H.S. Weiner	9/23/68	Typed letter	Raw Materials for Manufacture of Dacamine
00000781	R.A. Guidi	F.R. Kennedy	S.S. Savage B.D. Knoblock H.S. Weiner Valentine Contreras Flores	9/3/68	Typed memo	Dacamine - Mexico
00000782	Gordon	M.R.		9/10/68	Handwritten memo	Dacamine Raw Material Samples

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000905	F. Gordon Steward			2/9/66	Typed report (p. 2)	Operating Comments Plant Technical Jan. 1966
00000913	F. Gordon Steward			3/9/66	Typed report (p. 2)	Operating Comments Plant Technical Feb. 1966
00000916	A.M. Hauser			4/13/66	Typed report (p. 2)	Summary of Variances March 1966; Agric. Chemicals Div. - Newark Plant
00000921	F. Gordon Steward			4/13/66	Typed report (p. 2)	Operating Comments Production March 1966
00000926	A.M. Hauser			5/11/66	Typed report (p. 2)	Summary of Variances April 1966
00000931	F. Gordon Steward			5/9/66	Typed report (p. 2)	Operating Comments Plant Technical April 1966

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT.	SUBJECT
00000935	A.M. Hauser			6/8/66	Typed report (p. 2)	Summary of Variances May 1966
00000940- 00000941	F. Gordon Steward			6/8/66	Typed report (pp. 2&3)	Operating Comments Plant Technical May 1966
00000947	A.M. Hauser			7/13/66	Typed report (p. 2)	Summary of Variances June 1966
00000952	F. Gordon Steward			7/13/66	Typed report (p. 2)	Operating Comments Plant Technical June 1966
00000961	F. Gordon Steward			8/10/66	Typed report (p. 3)	Operating Comments Plant Technical July 1966
00000970- 00000971	F. Gordon Steward			9/6/66	Typed report (pp. 2&3)	Operating Comments Plant Technical August 1966

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000981- 00000982	F. Gordon Steward			10/12/66	Typed report	Pages 2 and 3 of something re: Esters and Dacamines
00000983	A.M. Hauser			11/9/66	Typed report (p. 1)	Summary of Variances October 1966
00000991	F. Gordon Steward			11/9/66	Typed report (p. 2)	Operating Comments Plant Technical October 1966
00000995	A.M. Hauser			12/7/66	Typed report (p. 3)	Summary of Variances November 1966
00000999- 00001000	F. Gordon Steward			12/7/66	Typed report (pp. 2&3)	Operating Comments Plant Technical November 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001007	A.M. Hauser			1/11/67	Typed report (p. 2)	Summary of Variances December 1966
00001011	E. Bak			1/11/67	Typed report (p. 2)	Operating Comments Production December 1966
00001013- 00001014	F. Gordon Steward			1/11/67	Typed report (pp. 2&3)	Operating Comments Plant Technical December 1966
00001023- 00001025	F. Gordon Steward			2/8/67	Typed report	Operating Comments Plant Technical January 1967
00001026	FGS			2/8/67	Typed data	Operating Data January 1967

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT.	SUBJECT
0001219- 0001221	F. Gordon Steward			6/11/68	Typed report	Operating Comments Plant Technical May 1968
0001222	FGS			6/12/68	Typed data	Operating Data May 1968
0001231- 0001233	F. Gordon Steward			7/10/68	Typed report	Operating Comments Plant Technical June 1968
0001234					Typed data	Operating Data June 1968
0001243	F. Gordon Steward			8/7/68	Typed report (p. 2)	Operating Comments Plant Technical July 1968
0001253- 0001254	F. Gordon Steward			9/11/68	Typed report	Operating Comments Plant Technical August 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0001255	FGS			9/11/68	Typed data	Operating Data August 1968
0001257	A.M. Hauser				Typed report (p. 2)	Summary of Variances September 1968
0001262- 0001264	F. Gordon Steward			10/9/68	Typed report	Operating Comments Plant Technical September 1968
0001265	FGS			10/9/68	Typed data	Operating Data September 1968
0001266	A.M. Hauser				Typed report (p. 1)	Summary of Variances October 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001285- 00001287	F. Gordon Steward			12/11/68	Typed report	Operating Comments Plant Technical November 1968
00001288	FGS			12/11/68	Typed data	Operating Data November 1968
00001459- 00001460	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Wiener	5/21/69	Typed memo	Trichlorophenol & Sodium Trichlorophenate Polaquimia, S.A.
00001727	M. Rosenfeld	F.G. Steward	R. Chonoles R.L. Urbanowski	12/24/68	Typed memo	Proposed Solvent
00001730	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	3/21/68	Typed memo	Dacthal
00001731					Handwritten chart	Dacthal

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001732- 00001733	JM	F.G.	F.R.	3/8/68	Handwritten memo & invoice	Inventory of Termil
00001747	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	11/7/67	Typed memo	New Product - Imidazoline
00001748- 00001749	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	10/20/67	Handwritten memo	Meeting with NOPCO
00001750- 00001752	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/12/67	Typed memo	Dacthal (with attached charts)
00001756	Milton Rosenfeld	V.P. Kuceski	M.H. Wiese F.R. Kennedy F.G. Steward	9/18/67	Typed letter	Proposed Solvent
00001757	Milton Rosenfeld	Wiese	F.R. Kennedy F.G. Steward	8/31/67	Typed letter	Proposed Solvent

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001763	F. Gordon Steward	C. Gustafson	F.R. Kennedy	4/26/67	Typed memo	Hexachlorobenzene
00001764	K. Shaffert			11/18/53	Typed report	Abstract of Joint Army/Navy Specifica- tion H257 for Hexa- chlorobenzene
00001765	M. Rosenfeld	J. Burton	W.J. Esselstyn	8/4/58	Typed memo	Hexachlorobenzene
00001766	M. Rosenfeld	J. Burton		10/10/58	Typed memo	Hexachlorobenzene
00001767- 00001768	J.M.	F.R.K.	F.G. Steward	3/31/67	Handwritten memo	Telephone Conversa- tion with Supplier
00001769	M. Rosenfeld	F.G. Steward	F.R. Kennedy	1/6/67	Typed memo	Solvent
00001770	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.L. Urbanowski	12/13/66	Typed memo	Treflan
00002262						Duplicate of #000003755
00003251- 00003252	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy J.P. McCabe	10/7/69	Typed memo	Dacamine Emulsification
00003253- 00003256	M. Rosenfeld	F.G. Steward	R. Chonoles	2/28/69	Typed	Dacamine-4D Biological Report

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00003479- 00003480						Duplicate of #00001459-00001460
00003481- 00003482						Duplicate of #00001459-00001460
00003755- 00003756	F.R. Kennedy	R.A. Guidi		1/11/68	Typed memo and attached graph	Cost Breakdown for Gov't "Orange"
00003757- 00003758						Duplicate of #00003755-00003756
00003793	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004058- 00004060				10/8/65	Handwritten figures	245-T Acid 84,000# STD
00004061- 00004063						Duplicate of #00004058-00004060
00004067	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture
00004070- 00004074				7/13/65	Handwritten notes	U.S. Gov't Invitation to Bid
00004222- 00004227				January 1968	Typed and handwritten form	Monthly Inventory Report
00004228- 00004246				1/68	Handwritten information	Formulation Processes

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004507	S.B. Greenbaum	R. Chonoles		2/28/69	Typed memo	Preparation of Isopropyl Esters
00004508	S.B. Greenbaum	F. G. Steward	R. Chonoles	2/27/69	Typed memo	Method for Prepara- tion of Isopropyl Esters
00004509	S.B. Greenbaum	F.G. Steward		2/28/69	Typed.. memo	Addendum to #00004508
00004511- 00004518						Duplicate of #00000404-00000411
00004519- 00004520	F. Gordon Steward	R.A. Guidi	F.R. Kennedy	8/4/66	Typed memo	Butyl-D Ester Plant
00004561- 00004562						Duplicate of #00004519-00004520

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004563	F.G. Steward			8/3/66	Handwritten diagram	Butyl-D Ester Plant 5.4 mm lb/yr
00004620	C.L. Troph	All Field Sales Personnel All Tech Servicemen	R.L. Dezember C.J. Galley P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatoski G.L. Pratt J.O. King R.L. Urbanowski	2/6/69	Typed memo	Dacamine Wax Bars
00004621- 00004624	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	3/4/69	Typed memo with hand- written attachments	2,4-D Bars
00004625	Gordon	Mike		8/16/68	Handwritten memo	Amine for Dacamines
00004626	Supplier	F. Gordon Steward	Supplier's Representatives	8/12/68	Typed letter	Sample of Amine for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004629	F.G. Steward			5/21/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004631	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld T.J. Neidlinger	8/8/68	Typed memo	Dacamine Bars
00004632- 00004633	F.G. Steward			8/8/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004635	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	8/9/68	Typed memo	Dacamine Bar Field Tests
00004636						Duplicate of #00004632
00004637	F. Gordon Steward	Supplier	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	8/9/68	Typed letter	Sample of Amine for Dacamines
00004638	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	6/20/68	Handwritten memo	Dacamine Bars

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0004642	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	6/24/68	Typed memo	Dacamine Bars
0004643- 0004644	F.G. Steward			6/24/68	Handwritten inventory	Inventory of Special Dacamine Formulations
0004646	F.G. Steward	R.L. Urbanowski	F.R. Kennedy T.J. Neidlinger M. Rosenfeld	4/26/68	Typed memo	Dacamine Bars
0004648	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.L. Urbanowski	1/3/68	Typed memo	Dacamine Bars
0004649	Gordon	Mike		3/27/68	Handwritten memo	Amine Sample for Dacamines
0004650- 0004651	F. Gordon Steward	F.R. Kennedy	E. Bak M. Rosenfeld	3/27/68	Handwritten memo	Amine for Dacamines
0004652	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	4/4/68	Typed memo	Amine for Dacamines
0004653	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	L.L. Henson	2/14/68	Typed memo	Dacamine
0004654	L.L. Henson	R.A. Guidi		2/28/68	Typed memo	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004655	Dr. E.L. Chandler	Dr. E.F. Woodward	C.H. Lighthouse H.A. Batley J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/27/68	Typed memo	Dacamine Formulations
00004656	R.A. Guidi	M. Rosenfeld	E.G. Weierich F.R. Kennedy R.L. Urbanowski		Typed memo	Dacamine Emulsifiers
00005079- 00005081	Paul H. Schuldt Boyce Thompson Inst. Yonkers, N.Y.	L. Gordon Utter	Dr. Chandler	11/21/60	Typed letter & attached chart	Volatility Tests on Esters
00005083	J.R. Clark	R.A. Guidi	F.R. Kennedy	11/3/60	Typed memo	D&T Esters from Supplier's Alcohols
00005085	R.A. Guidi	E.G. Osborne	T.O. Evrard J.O. King	12/21/60	Typed memo	4# Lo-V Fomulation for use with Liquid Fertilizer
00005086	J.R. Clark	F.R. Kennedy	R.A. Guidi T.O. Evrard	12/19/60	Typed memo	4# 2EH-D for Liquid Fertilizer

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005190- 00005192	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #147	11/2/60	Typed memo	Precipitates in Low Volatile Ester Formulations
00005193	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #146	11/19/60	Typed memo	Precipitates in Ester Formulations
00005194	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	12/12/67	Handwritten memo	Amine for Dacamines
00005195	M. Rosenfeld	F.G. Steward	F.R. Kennedy	11/6/67	Typed memo	Amine for Dacamines
00005196	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/10/67	Typed memo	Amine for Dacamines
00005262	J.R. Clark	M. Rosenfeld	J.A. Borrer R.A. Guidi F.R. Kennedy	10/13/61	Typed memo	3.34# Isopropyl-T
00005281- 00005282	J.R. Clark	M. Rosenfeld	R.A. Guidi F.R. Kennedy CF #153	3/10/61	Typed memo	Invert Emulsions of 2EH-T
00005416- 00005417	A.C.	J. Burton	J. Ginos C. Feinberg R. Guidi J. Browne	11/5/57	Handwritten memo	Esterification of Isopropyl-D Esters

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005457- 00005458	J.C. Kelly	R.A. Guidi	J.O. King H.S. Weiner	2/16/61	Typed memo and attached memos	Revised Requirements of 2,4-D
00005540	F.R. Kennedy	J.S. Cort, Jr.		6/24/64	Typed memo	Dry 2,4-D Appropriation
00005549	F.R. Kennedy	V.C. Cayton	J.S. Cort, Jr.	5/6/64	Typed memo	Drying D-Acid
00005550	V.C. Cayton	F.R. Kennedy	J.S. Cort, Jr.	5/4/64	Typed memo	Drying Facilities for D Acid
00005568	V.C. Cayton	F.R. Kennedy		5/19/64	Typed memo	Drying D-Acid
00005577	R.F. Lindemann	F.R. Kennedy		3/25/63	Typed memo	Availability of Dry Acid for Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005578						Duplicate of #000005577
00005579						Duplicate of #00005577
00005580						Duplicate of #00005577
00005581						Duplicate of #00005577
00005724- 00005726				10/7/57	Handwritten notes	2,4-D Costs
00006463	R.A. Remerscheid	F.R. Kennedy	M. Rosenfeld	7/29/64	Typed memo	Sludge - 1964 Ester Formulations

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007585	F.G. Steward	G.L. Pratt	R. Chonoles R.L. Dezember R.A. Remerscheid	4/22/69	Typed memo	Dacamine 4D Batch Numbers DM-108 and DM-122
00007593	F. Gordon Steward	R. Chonoles	G.M. Salvatto	10/29/68	Handwritten memo	Dacamine-4 Complaint
00007594- 00007596	G.M. Salvatto	F.G. Steward		10/16/68	Handwritten memo	Sediment Formation in Dacamine-4D
00007597	Gordon	Mike		7/23/68	Handwritten memo	Dacamine Complaint
00007601						Duplicate of #00007597
00007613	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	1/17/69	Typed memo	Dacamine - 4D Complaint

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007641	F.G. Steward	F.R. Kennedy	R.A. Guidi R.A. Remerscheid	7/25/68	Typed memo	Dacamine Complaint
00007744	F.R. Kennedy	B.A. Sprayberry	R.A. Guidi H.A. Branson	6/9/67	Typed memo	Dacamine Complaint
00007772	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	11/2/67	Typed memo	Dacamine Complaint
00007969- 00007970						Duplicate of #00000149-00000150
00007971- 00007972						Duplicate of #00000149-00000150
00007975						Duplicate of #00000151
00007976						Duplicate of #00000152
00007982						Duplicate of #00000154

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007984	F.R. Kennedy	R.A. Guidi		11/21/67	Typed memo	Emulsifier for Singleshoot
00007985						Duplicate of #00000176
00007988						Duplicate of #00000175
00007989						Duplicate of #00000178
00007991						Duplicate of #00000166
00007992	R.A. Guidi	F.R. Kennedy	J.O. King	1/8/68	Typed memo	Emulsifier for Singleshoot
00007994	E.L. Chandler	J.O. King	J.S. Cort, Jr. R.A. Guidi F.R. Kennedy H.A. Branson J.L. Freer	12/5/67	Typed memo	Emulsifier for Singleshoot

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007995	J.O. King	R.A. Guidi	E.L. Chandler F.R. Kennedy	11/29/67	Typed memo	Singleshot
00007996- 00007997						Duplicate of #00000164-00000165
00007998						Duplicate of #00000168
00007999	Gordon	Mike		6/29/67	Handwritten memo	Singleshot
00008000		Gordon		6/28/67	Handwritten memo	Singleshot
00008001						Duplicate of #00000169
00008002- 00008003						Duplicate of #00000170-00000171

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008014	R.A. Guidi	F.R. Kennedy	J.O. King	1/25/68	Typed memo	Singleshot
00008015	F.R. Kennedy	R.A. Guidi	E.L. Chandler M. Rosenfeld	2/19/68	Typed memo	Singleshot Labels
00008017	Mike	M.R.			Handwritten notes	Singleshot Labels
00008024- 00008025						Duplicate of #00000180-00000181
00008026- 00008027						Duplicate of #00000164-00000165
00008029						Duplicate of #00000166
00008030						Duplicate of #00000167

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008031						Duplicate of #00000167
00008032						Duplicate of #00000168
00009302	F.R. Kennedy	C. Feinberg		9/24/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009303	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	9/12/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009514						Duplicate of #00000175
00009664- 00009668	W.J. Esselstyn	J. Burton	L.J. Polite, Jr.	5/29/59	Typed memo and attached Technical Information Bulletin	Technical Information Bulletin Diamond Organic Products

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009896	G. Claudio	F.R. Kennedy	A.F. Marks	10/23/74	Typed memo	2,4-D Acid for Dacamines
00009899	G. Claudio	A.F. Marks	F.R. Kennedy G.D. Munger	7/29/74	Typed memo	Newark 2,4-D Acid
00009907	C.D. Hildebrecht	P.H. Schuldt	R.S. DePablo C.L. Dunning R.L. Urbanowski	2/11/65	Typed memo	Vapor Pressures of 2,4-D Products
00009930- 00009937	V.C. Cayton	F.W. Jarvis		3/19/62	Typed memo & attached report	Dacamines
00009951	C.L. Dunning	E.L. Chandler	D.E. Stallard	12/27/61	Typed memo	Amine for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009954	D.E. Stallard	C.L. Dunning	H.E. Everson J.O. King P.H. Schuldt L.G. Utter	7/19/61	Typed memo	Meeting with the Chlorinated Products Division - July 18, 1961
00009986	J.L. Hazen	R.W. Fraley	J.A. Ignatowski A.F. Marks D. Spranklin D. Swallow	11/19/79	Typed memo	Formulation of Fallek-Lankro Technical 2,4-D Acid
00009988- 00010006					Typed memo & attached tables and graphs	Study of Method for Analysis of Diamond Shamrock 2,4-D Formulated Products
00010010- 00010012						Duplicate of #00005079-00005081
00010014	J.R. Clark	L.G. Utter	R.A. Guidi F.R. Kennedy	10/26/60	Typed memo	Volatility Data

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
000014464					Typed memo	Alcohols (Section IV)
00014489						Duplicate of #00014464
00014490						Duplicate of #00014464
00014626					Blank form (typed)	Amine Batch Record (attached to #00014621-00014622)
00014678- 00014680	C.L. Troph	M.C. Heisele		11/15/72	Typed memo	2,4-D Process
00014814	R.A. Guidi	R.J. Marrese	P.H. Schuldt J.O. King	10/9/62	Typed memo	Dacamine Formulations - Patent Rights
00014815	Supplier of Amine Sample	Ray Guidi	(bcc) J.O. King	8/10/62	Typed letter	Sample of Amine for Dacamines
00014816	R.A. Guidi	RFL MR			Handwritten note	Re: Attached Correspondence (#00014817-00014823) and 10/9/62 Meeting

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014817	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	10/5/62	Typed memo	Attached Correspondence Re: Patent Rights in Dacamine D & T Formulations
00014818	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines
00014819	Roy Davis	R.J. Marrese	P.H. Schuldt D.M. Warburton	10/4/62	Typed memo	Dacamines
00014820	R.J. Marrese	Roy Davis	D.M. Warburton P.H. Schuldt	10/3/62	Typed memo	Patent Position With the Dacamines
00014821	R.J. Marrese	D.M. Warburton	Dr. Paul Schuldt J.O. King	10/2/62	Typed memo	Cover to Attached Report (#00014822-00014823)
00014822- 00014823	R.J. Marrese	FILE	E.L. Chandler J.O. King	9/28/62	Typed memo	Mtg. at Research to Discuss DACAMINE Chemistry (9/25/62)

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014824- 00014826	Roy Davis	C.L. Troph	W.H. Bricker J.O. King G.L. Pratt	6/2/69	Typed memo	Licenses for Amines
00014827	GLP	Mike				Routing Slip
00014828	R. Chonoles	Supplier of Amines	R.A. Guidi F.G. Steward	4/15/69	Typed memo	Amine for Dacamines
00014829	C.L. Troph	Roy Davis	G.L. Pratt	4/16/69	Typed memo	Patents re Amines
00014830	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.A. Ignatowski	10/2/69	Typed memo	Dacamine Repackaging
00014831- 00014838	Supplier of Chemical Products				Printed brochure	Supplier's Products
00014839	Supplier of Amines				Printed ad	Amines
00014840	M. Rosenfeld	F.G. Steward	F.R. Kennedy G.L. Pratt J.P. McCabe	9/17/69	Typed memo	Special Dacamine - 1D/1T

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014841- 00014842	J. Synek	A.L. Galloway	R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King P.H. Schuldt	3/13/69	Typed memo & attached cost comparison	Dacamine 4D
00014843	F.G. Steward	G.L. Pratt	R. Chonoles M. Rosenfeld	3/14/69	Typed memo	Amine for Dacamines
00014844	G.L. Pratt	Supplier of Amines	(bcc) R.A. Guidi R. Chonoles	4/7/69	Typed letter	Lab Evaluation of Amines
00014845	G.L. Pratt	R. Chonoles	R.A. Guidi	4/3/69	Typed memo	DACAMINE Report, F.G. Steward to G.L. Pratt, Dated 3/3/69
00014846					Handwritten figures	
00014847					Handwritten calculations	Break-Even Point
00014848- 00014849				1968	Typed summary	Summary of All 1968 Dacamine 4D Complaints
00014850- 00014863					Typed summary	Complaints & Remarks Re: Dacamine & Dacamine 4D

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014864				10/8/69	Typed tentative specification	DACAMINE Emulsifiable Concentrate
00014865						Duplicate of #00014864
00014866- 00014867						Duplicate of #00003251-00003252
00014868- 00014871						Duplicate of #00003253-00003256
00014872- 00014873						Duplicate of #00003251-00003252
00014874- 00014877						Duplicate of #00003253-00003256
00014878	Al DiDario	R.L. Urbanowski	E.L. Chandler W.A. Cunningham E.G. Osborne	7/6/68	Typed memo	Field Testing of DACAMINE Formulations
00014879	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	4/3/68	Typed memo	Dacamine Field Testing

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014880	F.G. Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed memo	Amine for Dacamines
00014881	F. Gordon Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed letter	Evaluation of Amine for Dacamines
00014882						Duplicate of #00004655
00014883	F.G. Steward	R.L. Urbanowski	F.R. Kennedy A. DiDario M. Rosenfeld	4/26/68	Typed memo	Dacamines for Field Testing
00014884	Joseph Synek	G.L. Pratt	R. Chonoles A.L. Galloway R.A. Guidi M. Hochberg H.C. Klein M. Rosenfeld P.H. Schuldt	1/14/69	Typed memo	Dacamine Improvement Program
00014885	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines
00014886- 00014887	Supplier of Amines	Geoffrey Pratt	Lou Henson	1/17/69	Typed letter	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014888- 00014898	E.A. Wainio	G.L. Pratt	M. Rosenfeld J.O. King R.A. Guidi	1/22/69	Typed memo & attached chemical abstracts	Literature Search- Proposed New Product
00014899- 00014900	G.L. Pratt	FILE	M. Hochberg R. Chonoles F.G. Steward J. Synek J.A. Ignatowski L.L. Henson	1/29/69	Typed memo	Visit by Representa- tive of Amine Supplier
00014901- 00014906	G.L. Pratt	J.C. Kelly	R.A. Guidi R.L. Urbanowski Cleveland File Concord File	11/29/66	Typed memo & attached telex, DACAMINE label, salt content	DACAMINE 2D/2T for Greece
00014907- 00014932	Supplier of Amines	G.L. Pratt			Typed letter & attachments	New Price Schedule for Amines
00014933- 00014934	J.A. Ignatoski	E.L. Chandler	G.L. Pratt R.L. Urbanowski	10/10/68	Typed memo	DACAMINE Formulations
00014935	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	DACAMINE Formulation

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014936	F.R. Kennedy	E.L. Chandler	R.A. Guidi H.O. Scott R.A. Remerscheid	11/28/67	Typed memo	DACAMINE Labels
00014937	E.L. Chandler	F.R. Kennedy	R.A. Guidi H.O. Scott R.A. Remerscheid G.L. Pratt	12/1/67	Typed memo	DACAMINE Labels
00014938	G.L. Pratt	F.G. Steward	R.A. Guidi R.L. Urbanowski J.O. King E.L. Chandler F.R. Kennedy	11/27/67	Typed memo	Specification for DACAMINE
00014939					Business card	Name of Representa- tive of Amine Supplier
00014940	G.L. Pratt	F.G. Steward	M. Hochberg R.A. Guidi H.C. Klein R. Chonoles M. Rosenfeld J. Synek P.H. Schuldt	1/13/69	Typed memo	DACAMINE Improvement Program
00014941- 00014943	J. Synek	P.H. Schuldt		1/2/69	Typed memo	Dacamine 4D Emulsifiable Concentrate

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014944- 00014950	A.L. Galloway			1/2/69	Typed memo	Confidential Specs
00014951- 00014955	G.L. Pratt	C.T. Baldanza E.L. Chandler J.W. Daniel R.L. Dezimmer P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King T.J. Neidlinger P.H. Schuldt C.L. Troph R.L. Urbanowski M.F. Wilkerson		12/11/68	Typed memo	DACAMINE REVIEW Research & Technical Service Meeting 12/12/68
00014956- 00014959	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi G.L. Pratt	12/6/68	Typed memo	Dacamine History
00014960					Handwrittwn calculations	1969 Sales Forecast
00014961	G.L. Pratt	H.C. Klein	M. Hochberg M.F. Wilkerson R.A. Guidi R. Chonoles	12/9/68	Typed memo	DACAMINE Profitability

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014962	J.C. Kelly	R.A. Remerscheid	H.A. Branson J.O. King R.A. Remerscheid	11/12/68	Typed memo	Dacamine Products in Warehouse
00014963	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatowski G.L. Pratt	9/30/68	Typed memo	Dacamine-2D
00014964	R.R. Irani	J.L. Fordham		11/7/68	Typed memo	Dacthal and New Products
00014965	J.O. King	G.L. Pratt		12/9/68	Typed memo	Proposed New 2,4-D Product
00014966						Duplicate of #00001747
00014967	G.L. Pratt	Betty Waines	Rosenfeld J.O. King R.A. Guidi	12/27/68	Typed memo	Literature Search re Proposed New Product
00014968					Handwritten notes	Amine for Dacamines
00014969- 00014970	R.A. Guidi	M.F. Wilkerson	J.O. King J.C. Kelly F.R. Kennedy	2/24/66	Typed memo	Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014971	P.N. Lutz	John M. Sanders	C.L. Dunning R.L. Urbanowski	6/22/66	Typed memo	Quality Control on Dacamine
00014972- 00014973						Duplicate of #00014933-00014934
00014974- 00014981	R. Chonoles	H.C. Klein	R.A. Guidi G.L. Pratt F.G. Steward	11/8/68	Typed memo & attachments	4# Dacamine-D
00014982- 00014983	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	5/24/66	Typed memo	Off-Grade Dacamines
00014984	R. Chonoles	H.C. Klein	R.A. Guidi F.R. Kennedy	12/9/68	Typed memo	Dacamine
00014985- 00014987	G.L. Pratt	R.A. Guidi	M. Hochberg R.L. Urbanowski C.L. Troph J.O. King E.L. Chandler M.F. Wilkerson J.A. Ignatoski R. Chonoles M. Rosenfeld F.G. Steward S. Greenbaum H. Klein F.R. Kennedy	11/26/68	Typed memo	Newark Plant, Harrison Plant Visit Nov. 6 & 7, 1968, re Dacamine and Other Products

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014988- 00014990					Handwritten notes	Label Revisions Dacamine & Dacamine 4D
00014991	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	1/17/69	Typed memo	Dacamine Samples for Field Tests
00014992	J.A. Ignatowski	J.O. King	E.L. Chandler R.A. Guidi R.A. Urbanowski G.L. Pratt	8/21/68	Typed memo	Dacamine 4D Formulation
00014993						Duplicate of #00000154
00014994	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatoski G.L. Pratt	8/27/69	Typed memo	Dacamine Repackaging
00014995	Supplier of Amines			9/17/69	Typed price list	Prices of Amines
00014996	Supplier of Amines				Printed ad	Amines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014998	R. Chonoles	H.C. Klein	R.A. Guidi F.G. Steward	4/17/69	Typed memo	Amine for Dacamines
00014999						Duplicate of #00014828
00015000	R. Chonoles	R.A. Guidi		3/27/69	Typed memo	Amine for Dacamines
00015001	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	4/7/69	Typed memo	Amine for Dacamines
00015002	Gordon	Bob		4/14/69	Handwritten memo	Dacamine Patent
00015003	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015004- 00015005	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015006- 00015009	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015010						Duplicate of #00014840
00015011						Duplicate of #00014994
00015012	J.A. Ignatoski	Milt Rosenfeld	H.A. Branson T.L. Curry R.J. Orlik	7/24/69	Typed memo	Dacamine Repackaging
00015013	J.A. Ignatoski	H.A. Branson	T.L. Curry R.J. Orlik	7/7/69	Typed memo	Dacamine Repackaging

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015014	T.L. Curry	R.L. Urbanowski	E.L. Chandler H.A. Branson R.J. Orlik	1/3/69	Typed memo	Dacamine Strength
00015015	H.A. Branson	T.L. Curry	R.J. Orlik R.L. Dezember	5/9/69	Typed memo	Dacamine Strength
00015016	T.L. Curry	H.A. Branson		6/13/69	Typed memo	Dacamine Requirements
00015017	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Rosenfeld	7/16/69	Typed memo	Dacamine & Dacamine 4-D Formulations
00015018- 00015019						Duplicate of #00014933-00014934
00015020	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	Dacamine Formulations
00015021- 00015023	M.R.			1/69	Handwritten figures	Specs of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015024	Gordon	Bob	Mr. Rosenfeld	7/8/69	Handwritten memo	Dacamines
00015025						Duplicate of #00015000
00015026						Duplicate of #00014885
00015027	R. Chonoles	R.A. Guidi		3/20/69	Typed memo	Substandard Dacamine
00015028						Duplicate of #00000762
00015029						Duplicate of #00000763
00015030- 00015031						Duplicate of #00000764-00000765
00015032- 00015035						Duplicate of #00004621-00004624

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015036	R. Chonoles	R.A. Guidi		3/3/69	Typed memo	Dacamine Improvement Program
00015037- 00015041	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Hochberg J.A. Ignatoski M. Rosenfeld G. Salvatto P.H. Schuldt J. Synek C.L. Troph	3/3/69	Typed memo	Dacamine Improvement Program
00015042						Duplicate of #00014845
00015043- 00015044	G.M. Salvatto	F.G. Steward	R. Chonoles G.L. Pratt M. Rosenfeld	3/3/69	Typed.. memo	Dacamine Quality
00015045- 00015047						Duplicate of #00015612-00015615 (p. 3 of 4-page memo missing)
00015048						Duplicate of #00004620
00015049						Duplicate of #00000767

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015050						Duplicate of #00014991
00015051- 00015056	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	1/9/69	Handwritten memo	D-Acid Bars
00015058- 00015061						Duplicate of #00014956-00014959
00015062	Gordon	Bob		12/20/66	Handwritten memo	Dacamine Bars
00015063	Gordon	G.L. Pratt	R. Chonoles M. Rosenfeld	12/16/68	Handwritten memo	Amine for Dacamine
00015064						Duplicate of #00014961
00015065						Duplicate of #00014984
00015066	Milton Rosenfeld	Supplier of Solvent	R. Chonoles F.G. Steward	11/26/68	Typed letter	Request for Specs on Solvent
00015067- 00015069						Duplicate of #00014985-00014987

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015070	F.G. Steward	G.L. Pratt	R. Chonoles	11/8/68	Typed memo	Dacamine Complaint
00015071- 00015073						Duplicate of #00014974-00014976
00015074	G.L. Pratt			6/13/67	Typed specs	DACAMINE 4D
00015075- 00015076	T.J. Neidlinger	All Tech Service Reps All Regional Sales Managers All Salesmen R.L. Urbanowski Gordon Steward Milt Rosenfeld Robert Chonoles J.O. King		10/25/68	Typed memo	Dacamine Bar Research Program
00015077	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	10/22/68	Typed memo	Dacamine Complaint
00015078	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	10/7/68	Typed memo	Dacamine Samples
00015079						Duplicate of #00014963

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015080- 00015082	F. Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Preparing Dacamine
00015083- 00015084	Frank Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Wet Dacamine 4D
00015085	R.L. Urbanowski	F.G. Steward	R.A. Guidi T.J. Neidlinger R. Chonoles	9/25/68	Typed memo	Dacamine Bars
00015086						Duplicate of #00000780
00015087	Gordon	Bob		9/19/68	Handwritten memo	Dacamine Raw Materials for Mexico
00015088						Duplicate of #00000781
00015089						Duplicate of #00004635

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015090						Duplicate of #00004631
00015091						Duplicate of #00007641
00015092	Illegible	Gene			Handwritten memo	'68 Requirements
00015093	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy J.C. Kelly	6/25/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015094	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	6/21/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015095						Duplicate of #00004642
00015096	Gordon	Mike		5/29/68	Handwritten memo	Amine for Dacamines
00015097						Duplicate of #00014883

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015098						Duplicate of #00004646
00015099- 00015100	Gordon	Mike		4/18/68	Handwritten memo	Dacamine Samples For Field Tests
00015101						Duplicate of #00014883
00015102						Duplicate of #00014879
00015103						Duplicate of #00014881
00015104						Duplicate of #00014880
00015105						Duplicate of #00014880
00015106						Duplicate of #00014879

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015107	M. Rosenfeld	R. Leibling	F.R. Kennedy F.G. Steward	4/1/68	Typed memo	Emulsifier for Dacamines
00015108- 00015109	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/12/67	Typed memo	Amines for Dacamines
00015110	R.A. Guidi	F.R. Kennedy		10/20/67	Typed memo	Emulsifier for Dacamines
00015111- 00015112						Duplicate of #00001748-00001749
00015113	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	2/5/68	Handwritten memo	Amine/Acid Ratio for Dacamine
00015114	Milt Rosenfeld	F. Gordon Steward	F.R. Kennedy	1/16/68	Handwritten memo	Dacamine
00015115	Leo M. Heath			1/16/67	Handwritten lab analysis	Dacamine 2-D Prep. By M.R.
00015116						Duplicate of #00014937
00015117						Duplicate of #00015113

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015118						Duplicate of #00015114
00015119						Duplicate of #00015115
00015120						Duplicate of #00014937
00015121	R.L. Urbanowski	F.G. Steward	R.A. Guidi J.O. King T.J. Neidlinger F.R. Kennedy	3/21/68	Typed memo	Dacamine Bars
00015122	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy J.O. King	3/13/68	Typed memo	Dacamine Formulations & 2,4-D Acid Requirements
00015123- 00015124	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi	2/27/68	Typed memo & attached figures	Des Moines Require- ments - Dacamine & Dacamine 4D
00015125	R.A. Guidi	F.E. Woodward	E.L. Chandler C.H. Lighthipe H.A. Batley H.E. Everson F.R. Kennedy J.S. Cort, Jr.	3/8/68	Typed memo	Dacamine Formulations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015494	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	10/19/62	Typed memo	Dacamine Formulations
00015495- 00015501	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo & attachments	Viscosity & Stability of Dacamines
00015502- 00015503	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Recommendation & Description of a New #4 Dacamine-TP Formulation
00015504- 00015505					Typed memo ..	4# Dacamine-TP Specifications
00015506	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015507	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015508	R.F. Lindemann	W.E. Hill, Jr.	R.A. Guidi M. Rosenfeld	10/12/62	Typed memo	Chromatographic Analysis of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015509- 0015511	R.L.	R.A. Guidi			Handwritten memo	Dacamine Stability
0015512	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines- Patentable Features
0015513	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi M. Rosenfeld	9/19/62	Typed memo	Extendability of Dacamine-T
0015514	R.A. Guidi	R.J. Marrese		9/19/62	Typed memo	Cover to #00015515
0015515	R.J. Marrese	J.P. Conroy	R.R. Wood R.A. Guidi	8/15/62	Typed memo	Extendability of Dacamine T
0015516	R.A. Guidi	J.C. Kelly	J.O. King	9/18/62	Typed memo	Dacamine Inventory
0015517	R.A. Guidi	Illegible		9/18/62		Cover Note to #00015518-00015519
0015518- 0015519						Duplicate of #00015004-00015005
0015520	R.A. Guidi	J.O. King	H.S. Weiner	8/6/62	Typed memo	Amines for Dacamine
0015521	J.O. King	R.A. Guidi	H.S. Weiner	7/26/62	Typed memo	Amines for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015522	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill	5/15/62	Typed memo	Dacamine Formulations- Aging Tests
00015523	R.A. Guidi	R.J. Marrese		5/4/62	Typed memo	Label For Dacamines
00015524	R.J. Marrese	P.H. Schuldt	R.A. Guidi J.O. King	5/3/62	Typed memo	Nomenclature for Dacamines
00015525	R.A. Guidi	J.C. Kelly		4/17/62	Typed memo	Dacamine Shipment
00015526	R.A. Guidi	J.O. King	E. Chandler H.S. Weiner	4/16/62	Typed memo	Dacamine Samples
00015527	R.A. Guidi	R.J. Marrese	T.O. Evrard	4/12/62	Typed memo	Shipment of Dacamine T Samples
00015528		R.A. Guidi				• Routing Slip
00015529	R.J. Marrese	Ernst V. Bender Macon Research Center	T.O. Evrard R.A. Guidi	4/9/62	Typed letter	Non-Emulsifiable Dacamines
00015530	Ernst V. Bender Macon Research Center	T.O. Evrard		4/6/62	Typed letter	Proposed Test on Dacamine T (Non-Emulsifiable)

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015574	H.S. Weiner	J.O. King	E.L. Chandler R.A. Guidi	8/31/61	Typed memo	Anticipated Sales of Dacamine
00015575	E.L. Chandler	Dr. R. J. Weir, Jr. Hazelton Labs Falls Church, Va.	R.A. Guidi J.O. King	9/19/61	Typed letter	Toxicological Tests on D/T Amine and Formula for Same
00015576	R.J. Marrese	R.A. Guidi	J.R. Clark	9/7/61	Typed memo	Cover to #00015577
00015577	R.J. Marrese	All Branch Managers All Ag Chem Specialists		9/6/61	Typed memo	Dacamine Use
00015578- 00015579	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	9/1/61	Typed memo	Label Data For Dacamines
00015580- 00015581	R.A. Guidi	H.S. Weiner	J.O. King	8/30/61	Typed memo	Dacamine Costs and Process
00015582	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	8/3/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015583	R.J. Marrese	J.R. Clark		7/28/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine
00015584	R.A. Guidi	J.O. King	H.S. Weiner R.A. Remerscheid	7/23/61	Typed memo	Trade Report re Labeling of Samples
00015585	D.J. Dickson			6/27/62	Typed report	Trade Report re Labeling of Samples
00015586	M. Rosenfeld	R.A. Guidi		7/18/62	Typed memo	Dacamine Samples
00015587	R.A. Guidi	Harold Branson	J.O. King H.S. Weiner	6/20/62	Typed memo	Dacamine Formulations
00015588	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/14/62	Typed memo	Production and Properties of Dacamine Formulations
00015589	R.A. Guidi	J.O. King	J.C. Kelly H.S. Weiner	4/6/62	Typed memo	Properties of 4# Dacamine-D Formulation
00015590	J.O. King	R.A. Guidi	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/11/62	Typed memo	Dacamine Inventories

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015591	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	6/13/62	Typed memo	Formula for Dacamine D/T
00015592	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson	5/18/62	Typed memo	Dacamine Inventories
00015593	R.A. Guidi	H. Branson	J.O. King R.F. Lindemann M. Rosenfeld	5/17/62	Typed memo	Dacamine Formulations
00015594	Milton Rosenfeld	R.A. Guidi		5/14/62	Typed memo	Dacamine Samples
00015596- 00015597					Handwritten calculations	Dacamine Ingredients
00015598- 00015600	F.R. Kennedy	H.H. Harris		9/17/73	Typed memo	Dacamine Product Labeling

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015601	A.F. Marks	F.R. Kennedy	G.D. Munger	9/18/73	Typed memo	Ingredient Statements, Dacamine Products
00015602	F.R. Kennedy	File		9/17/73	Typed memo	Dacamine Active Ingredient Calculations
00015603- 00015609					Handwritten calculations	Dacamine Ingredients
00015610- 00015611					Specimen labels	Dacamine & Dacamine 4D
00015612- 00015615	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt J. Synek	3/3/69	Typed memo	Data on Dacamine Formulations
00015616						Duplicate of #00015036
00015617- 00015621						Duplicate of #00015037-00015041

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015622- 0015626						Duplicate of #00014951-00014955
0015627- 0015630						Duplicate of #00014956-00014959
0015631- 0015633						Duplicate of #00014941-00014943
0015634- 0015639						Duplicate of #00014944-00014950
0015640	F.R. Kennedy	A. Marks	G.D. Munger	9/14/73	Typed memo	Ingredient Statements for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015641- 00015642						Duplicate of #00015155-00015156
00015643- 00015646						Duplicate of #00014956-00014959
00015647- 00015649						Duplicate of #00014941-00014943
00015650- 00015651	G.L. Pratt	M.F. Kennedy	E.L. Chandler R.A. Guidi J.A. Ignatoski J.O. King F.G. Steward	8/27/68	Typed memo	Dacamine Formulations
00015652- 00015653						Duplicate of #00015650-00015651
00015654						Duplicate of #00014991

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015655						Duplicate of #0001501
00015656						Duplicate of #00015003
00015657- 00015660	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	4/3/67	Typed memo	Raw Materials for Dacamine Formulations
00015661	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.P. McCabe R.A. Guidi	10/7/69	Typed memo	Specification for Amine in Dacamine Formulations
00015662- 00015666						Duplicate of #00015037-00015041
00015667						Duplicate of #00015243
00015668- 00015671						Duplicate of #00015246-00015249
00015672	R.L. Urbanowski	F.G. Steward	E.L. Chandler R.A. Guidi J.O. King J.A. Ignatoski A. DiDario F.R. Kennedy	4/3/68	Typed memo	Dacamine 1968 Field Program

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015673	R.A. Remerscheid	G.L. Pratt		11/18/68	Typed memo	Cover to #00015674-00015681
00015674- 00015681	R.A. Remerscheid	R.A. Guidi	Bill Pierson J.O. King T. Neidlinger	5/20/66	Typed memo	Emulsification of Dacamine 4D
00015682- 00015685						Duplicate of #00015237-00015240
00015686- 00015687						Duplicate of #00015043-00015044
00015688	J.A. Ignatoski	J.P. McCabe	W.H. Bricker G.L. Pratt J.O. King R.A. Guidi	9/4/69	Typed memo	Dacamine Formulation Study
00015689- 00015692						Duplicate of #00003253-00003256

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015694- 0015695						Duplicate of #00001459-00001460
0015696						Duplicate of #00000762
0015697						Duplicate of #00000769
0015698- 0015700						Duplicate of #00000773-00000775
0015701						Duplicate of #00000776
0015702						Duplicate of #00000777

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015703						Duplicate of #000000768
00015723 00015774 00015776-78 00015861 00015863-67 00015869						Excerpts From Specification Manual Notebook
00015949	C.T. Cross	M.J. Skeeters	R.L. Annis H. Bluestone D.R. Geaman A. Hlynsky T.F. Holder C.E. Entemann G.F. Rugar N.V. Seegar L.P. Seyb	1/16/59	Typed memo	2,5-Bis (Hydroxy- methyl) Trichloro- phenols Patent Dept. Docket No. 886
00016061- 00016069	R.M. Bimber	O.K. Furuta	H. Hlynsky R.H. Lasco E.A. Lavergne Central Files	7/28/78	Typed memo ..	Prospects for Higher Yields of Chloro- acetic Acid & 2,4- Dichlorophenol
00016077	S.B. Honour	C.T. Cross	H.E. Everson J.S. Cort R.G. Buettner S.S. Savage R.C. Sutter	1/26/67	Typed memo	Diamond Japanese Patent No. 285,063 Proposed License
00017451- 00017457				12/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different Plants

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017462- 00017464	F. Gordon Steward			12/10/69	Typed memo	Ag Chem Div - Newark Plant Operating Comments November 1969
00017466- 00017467	F. Gordon Steward			10/8/69	Typed memo	Biochem Div - Newark Plant Operating Comments September 1969
00017468- 00017472				8/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different Plants
00017473		R.L. Chonoles		6/2/69	Typed letter	Manufacturing Chemists Ass'n Certificate of Achievement For Newark Plant
00017474- 00017476						Duplicate of #00014985-00014987

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017740	F.R. Kennedy	C.H. Gilbert		11/9/70	Typed memo	Analysis of Dacamine
00017741- 00017742	A.E. Conroy II U.S. Dept. of Agric.	C.H. Gilbert		8/14/70	Typed letter & attached Official Method of Analysis	Analysis of Dacamine
00017743	G.D. Munger	Ralph McElhaney	C.H. Gilbert	7/2/70	Typed memo	Amine for Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017744	R.E. Gilmore	C.H. Gilbert		5/20/70	Typed memo	Dacamine Containers
00017745- 00017746	C.H. Gilbert	A.E. Conroy II U.S. Dept. of Agric.	(bcc) R.C. Andrews H.H. Harris	6/5/70	Typed letter & attached 2,4-D Method of analysis	Analysis of Dacamine
00017747	R.A. Guidi	C.H. Gilbert	J.P. McCabe R.A. Bruckman H.H. Harris	3/18/70	Typed memo	Dacamine Label
00017748	C.H. Gilbert	R.A. Guidi		3/12/70	Typed memo	Labelling of Dacamine Shipments
00017749	R.A. Bruckman	R.A. Guidi	F.R. Kennedy J.P. McCabe C.H. Gilbert J.C. Kelly L.E. Rauch M.E. Engleka R.L. Ellis E.P. Worthington L.F. Schuelke	2/27/70	Typed memo	Dacamine Packaging
00017750	J.O. King	C.H. Gilbert	J.P. McCabe	3/11/70	Typed memo with hand- written notes	Application of Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017751	C.H. Gilbert	J.O. King	J.P. McCabe	3/6/70	Typed memo	Application of Dacamine
00017752- 00017755	Stuart W. Turner, Stuart W. Turner & Co., Inc.	C.H. Gilbert		2/24/70	Typed letter & attached newspaper clippings	Application of Dacamine
00017756- 00017758	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi J.O. King M.F. Wilkerson	2/1/67	Typed memo & attached chart	Dacamine Profitability - Year 1966
00017759						Duplicate of #00017751
00017760	J.O. King	C.H. Gilbert	J.P. McCabe G.D. Munger	2/25/70	Typed memo	Dacamine - Insurance Matter
00017761	C.H. Gilbert	Lowell E. Miller, U.S. Dept. of Agric.	R.C. Andrews R.A. Bruckman F.R. Kennedy Citation File	2/20/70	Typed letter	Dacamine - Sample Assay; Addendum to Label
00017762	C.H. Gilbert	S. Turner, Stuart W. Turner Co., Inc.		2/18/70	Typed letter	Dacamine - Volatility
00017763- 00017767						Duplicate of #00015037-00015041

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017768						Duplicate of #00014884
00017769						Duplicate of #00014940
00017770	M. Hochberg	J. Synek	P.H. Schuldt J.L. Fordham G.G. Pirrone A.B. Tillman R.A. Guidi	1/10/69	Typed memo	Dacamine Formulation
00017771	Joe Synek	Mel Hochberg				Routing Slip

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017772- 00017781						Duplicate of #00014941-00014950
00017782	J.P. McCabe	J.C. Kelly	J.O. King	11/6/69	Typed memo	Dacamine Promotion

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017783					Typed memo	Tentative Specification (Dacamine Emulsifiable Concentrate)
00017784	J.P. McCabe	C.H. Gilbert R.A. Guidi J.A. Ignatoski F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid G.L. Troph		9/26/69	Typed memo	Dacamine Formulations Meeting
00017785	M.E. Engleka	J.A. Ignatoski	J.O. King R.A. Guidi J.P. McCabe R.A. Remerscheid	9/25/69	Typed memo	Assay of Dacamine Complaint Sample
00017786	C.H. Gilbert	J.O. King	W.H. Bricker	9/25/69	Typed memo	Dacamine Formulation
00017787- 00017788						Duplicate of #00014848-00014849

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017789- 00017793						Duplicate of #00014951-00014955
00019395	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi F.R. Kennedy J.P. McCabe	9/3/69	Typed memo	D/T Acid Samples for Dacamine Production
00019578- 00019580						Duplicate of #00011150-00011152

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019634	J.R. Baldrige			4/21/56 to 10/26/56	Research notebook	Excerpt From Research Notebook No. 2258
00019637- 00019639	C.E. Entemann			5/13/53 to 8/7/53	Research notebook	Excerpt From Research Notebook No. 1400 Vol. VII
00019641- 00019642	C.E. Entemann			7/23/56 to 5/21/57	Research notebook	Excerpt From Research Notebook No. 2318 Vol. XXI
00019646- 00019647	C.E. Entemann			1/3/61 to 9/61	Research notebook	Excerpt From Research Notebook No. 4147 Vol. V
00019653- 00019654	C.E. Entemann			10/1/61 to 1/11/63	Research notebook	Excerpt From Research Notebook No. 4165
00019716- 00019717	Walter H. Gunn			4/30/62 to 7/24/62	Research notebook	Excerpt From Research Notebook No. 4907
00019729	Walter H. Gunn			7/25/62 to 10/25/62	Research notebook	Excerpt From Research Notebook No. 4998

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019774	Alex Hlynsky			1/7/55 to 3/18/55	Research notebook	Excerpt From Research Notebook No. 1827
00019812	Alex Hlynsky			3/22/55 to 5/20/55	Research notebook	Excerpt From Research Notebook No. 1880
00019833, 00019839	Alex Hlynsky			5/55 to 4/58	Research notebook	Excerpts From Research Notebook No. 1947
00019848	A.J. Judge			6/17/57 to 8/23/57	Research notebook	Excerpt From Research Notebook No. 2782
00019873	George A. Miller			1/8/57 to 6/15/57	Research notebook	Excerpt From Research Notebook No. 2549
00019879	George A. Miller			6/13/57 to 8/14/57	Research notebook	Excerpt From Research Notebook No. 2778
00019888	George A. Miller			4/4/62 to 6/7/62	Research notebook	Excerpt From Research Notebook No. 4777
00019893	R.L. Urbanowski			5/3/62 to 4/8/65	Research notebook	Excerpt From Research Notebook No. 4903

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019946-48, 00019954	F.L. Curry			1/1/61 to 7/31/61	Research notebook	Excerpts From Research Notebook No. 4334
00020078	R. Steinkoenig			3/1/62 to 9/14/62	Research notebook	Excerpt From Research Notebook No. 4176
00020212	Joseph Budner			9/1/61 to 12/26/61	Research notebook	Excerpt From Research Notebook No. 4592
00020264	Richard E. Mackey			10/10/61 to 2/12/62	Research notebook	Excerpt From Research Notebook No. 4625
00020282	Gerald Schrag			8/15/72 to 3/30/73	Research notebook	Excerpt From Research Notebook No. 7976
00020375-76 00020390-93 00020395-96 00020398-401 00020403 00020407	B.A. Sprayberry			11/26/63 to 3/5/65	Research notebook	Excerpts From Research Notebook No. 5345

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020413-15 00020418-19 00020424-25	B.A. Sprayberry			1/9/65 to 5/13/68	Research notebook	Excerpts From Research Notebook No. 5588
00020465, 00020468	Joe Synek J. Brennan			12/28/68 to 7/22/69	Research notebook	Excerpts From Research Notebook No. 6839
00020470	Joseph T. Brennan			1/29/70 to 11/11/70	Research notebook	Excerpt From Research Notebook No. 7173
00020477- 00020485	Joseph Budner			6/19/70 to 11/13/70	Research notebook	Excerpt From Research Notebook No. 7283
00020616	J.J. Browne	H.E. Everson	J.L. Fordham	4/28/67	Progress report	Semi-Works Progress Report April 1967
00020617- 00020625	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	3/9/67	Progress report & charts	Status Report - Semi-Works February, 1967

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020626- 00020633	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	2/8/67	Progress report & charts	Status Report - Semi-Works January, 1967
00020634- 00020642	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	1/14/67	Progress report & charts	Status Report - Semi-Works December, 1966
00020643- 00020650						Duplicate of #00020626-00020633
00020651- 00020659						Duplicate of #00020634-00020642
00020660- 00020665	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	12/9/66	Progress report & charts	Status Report - Semi-Works November, 1966
00020666- 00020672	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	11/9/66	Progress report & charts	Status Report - Semi-Works October, 1966
00020673- 00020679	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone A.B. Tillman	10/11/66	Progress report & charts	Status Report - Semi-Works September, 1966
00020680- 00020686	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	4/11/66	Progress report & charts	Status Report - Semi-Works March, 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020687- 00020692	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	2/14/66	Progress report & charts	Status Report - Semi-Works January, 1966
00020693- 00020701		The Research Advisory Committee		5/7/63	Progress report	Consolidated Progress Report R & D Department April 1953
00020807- 00020817	C.L. Dunning	H.E. Everson	H.N. Benedict J. Coleman C.D. Hildebrecht J.J. Mannion R.A. Murie K.J. O'Leary I.E. Smiley D.E. Stallard R.L. Annis J.L. Fordham A.X. Hirsch D.E. Hudgin W.J. Lightfoot T.S. Perrin D.J. Porter P.H. Schuldt L.P. Seyb P.L. Slusser B. Wainio C.T. Cross D.M. Warburton E. Zinn R.G. Banner T.S. DeWoody G.B. Myers R.A. Springer	11/30/62	Progress report	Progress Report - Analytical Section August 1962 Thru October 1962

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020864- 00020875	C.L. Dunning	T.F. Holder	H.N. Benedict J.G. Coleman H.E. Everson C.D. Hildebrecht J.J. Mannion B. McNiff R.A. Murie K.J. O'Leary P.L. Slusser I.E. Smiley D.E. Stallard R.L. Annis A. Hirsch T.S. Perrin D.J. Porter G.F. Rugar N.V. Seeger L.P. Seyb Cross Warburton R.G. Banner J.A. Borrer T.S. DeWoody J.L. Fordham C.B. Myers R.A. Springer	5/5/60	Progress report	Progress Report - Analytical Section January thru April 1960

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021135- 0021136	J.J. Lukes	K.J. O'Leary	R.R. Irani E.A. Lavergne C.L. Sieglaff Central File	12/1/72	Progress report	1972-11
0021138- 0021139	J.J. Lukes	K.J. O'Leary	R.R. Irani Central File	10/5/72	Progress report	1972-9
0021170- 0021171	J.J. Lukes	R.C. Sutter		4/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (February & March 1961)
0021172- 0021173	J.J. Lukes	R.C. Sutter		2/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (December 1960 & January 1961)
0021178- 0021179	J.J. Lukes	K.J. O'Leary	R.R. Irani C.L. Sieglaff A.D. Babinsky Central File	2/21/73	Progress report	1973-2
0021180- 0021183	G.A. Miller	A. Hlynsky		6/6/57	Progress report	April & May 1957

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021210- 0021212	D.J. Porter	T.F. Holder	R.L. Annis Cross Warburton C.L. Dunning H.E. Everson A. Hirsch J.C. Noyes T.S. Perrin G.F. Rugar N.V. Seeger L.P. Seyb R.G. Banner T.S. DeWoody J.L. Fordham R.F. Lindemann C.B. Myers R.A. Springer	5/13/60	Progress report	Planning & Economics Group
0021294- 0021298	M.J. Skeeters	D.J. Porter		12/1/55	Progress report	October and November 1955
0021299- 0021303						Duplicate of #00020991-00020995
0021368- 0021370	E. Zinn	H.E. Everson	R.L. Annis D.M. Black C.T. Cross D.M. Warburton C.L. Dunning A. Hirsch D.E. Hudgin R.J. Koll W.J. Lightfoot J.C. Noyes D.J. Porter P.H. Schuldt L.P. Scoville	6/4/62	Progress report	Pilot Plant Preparation Reports

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021377- 0021378	E. Zinn	W.J. Lightfoot	R.L. Annis H.E. Everson R.J. Koll J.J. Lukes D.J. Porter F.J. Skala Central File	5/4/62	Progress report	Pilot Operations April 1962
0021390- 0021394	R. Battershell	H. Bluestone		2/13/61	Progress report	January-February 1961
0021395- 0021400	R.D. Battershell	H. Bluestone		1/6/61	Progress report	November-December 1960
0021412- 0021416	A.L. Galloway	G.F. Rugar	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb J.R. Trocki L.G. Utter R.L. Annis H. Bluestone C.L. Dunning C.B. Myers T.S. Perrin D.J. Porter N.V. Seeger I. Rosen	10/1/58	Progress report	Agricultural Chemicals Product Development August 16 - September 30, 1958

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021417- 0021422	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters J.R. Trocki L.G. Utter	8/18/58	Progress report	Agricultural Chemicals - Chlorinated Products Division July 1 - August 15, 1958
0021423- 0021428	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	6/30/58	Progress report	Agricultural Chemicals - Chlorinated Products Division May 16 - June 30, 1958
0021429- 0021433	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	5/15/58	Progress report	Agricultural Chemicals - Chlorinated Products Division April 1 - May 15, 1958
0021434- 0021439						Duplicate of #00021423-00021428

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
021440- 021444						Duplicate of #00021429-00021433
021559- 021560	J. Synek	A.L. Galloway		1/22/69	Progress report	Monthly Report January 1969
021562	J. Synek	A.L. Galloway		9/25/67	Progress report	Monthly Report September 1967
021565	J. Synek	A.L. Galloway		9/21/66	Progress report	Monthly Report September 1966
021566- 021567	J. Synek	A.L. Galloway		4/25/66	Progress report	Monthly Report April 1966
021568- 021569	J. Synek	A.L. Galloway		3/24/66	Progress report	Monthly Report March 1966
021570- 021571	A. Whyte	W.A. Gallup	R.L. Cryberg W.A. Janz R.H. Lasco E.A. Lavergne Central Files	1/23/73	Progress report	January 1973

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021583- 00021590	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) J.O. King R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	4/9/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division February 16 - March 31, 1958
00021591- 00021600	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway E.C. Gardes B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	2/15/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division January 1 - February 15, 1958
00021601- 00021605	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	12/31/57	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division November 16- December 31, 1957

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021607	L.G. Utter	D.J. Porter		11/15/57	Progress report	Research Oct. 1 - Nov. 15, 1957
00022182	S.J. Kovacs			1/21/66	Typed form	Foreign Patent Activity
00023994- 00023995	E. Bak			1/12/66	Typed memo	Operating Comments Maintenance and Utilities December 1965
00024011- 00024012	E. Bak			12/8/65	Typed memo	Operating Comments Production and Technical November 1965
00024083	E. Bak			3/10/65	Typed memo	Operating Comments Plant Technical February 1965
00024088	E. Bak			2/9/65	Typed memo	Operating Comments Plant Technical January 1965
00024094	E. Bak			1/13/65	Typed memo	Operating Comments Plant Technical December 1964
00024114- 00024116	A.M. Hauser			9/8/64	Typed memo	Summary of Variances- August 1964 Ag. Chem. Div., Newark Plant

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024126- 00024128	A.M. Hauser			7/7/64	Typed memo	Summary of Variances- June 1964 Ag. Chem. Div., Newark Plant
00024132- 00024134	A.M. Hauser			6/10/64	Typed memo	Summary of Variances- May 1964 Ag. Chem. Div., Newark Plant
00024145- 00024147	A.M. Hauser			3/11/64	Typed memo	Summary of Variances- March 1964 Ag. Chem. Div., Newark Plant
00024151- 00024152	R.F. Lindemann			3/10/64	Typed memo	Operating Comments Plant Technical February 1964
00024159- 00024160	R.F. Lindemann			2/10/64	Typed memo	Operating Comments Plant Technical January 1964
00024166- 00024167	R.F. Lindemann			1/7/64	Typed memo	Operating Comments Plant Technical December 1963

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024651- 00024653						Duplicate of #00017462-00017464
00024654- 00024656	F. Gordon Steward			11/12/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments October 1969
00024657- 00024658						Duplicate of #00017466-00017467
00024659- 00024661	F. Gordon Steward			9/10/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments August 1969
00024662- 00024664	A.M. Hauser				Typed memo	Summary of Variances July 1969 Biochem. Div. Newark Plant
00024667- 00024669	F. Gordon Steward			8/13/69	Typed memo	Operating Comments Plant Technical July 1969

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0024670- 0024671	A.M. Hauser				Typed memo	Summary of Variances June 1969 Biochem. Div. Newark Plant
0024673- 0024676	F. Gordon Steward			7/9/69	Typed memo	Operating Comments Plant Technical June 1969
0024683- 0024687	F. Gordon Steward			6/69	Typed memo	Operating Comments Plant Technical May 1969
0024701	R. Chonoles			4/9/69	Typed memo	Operating Comments Production March 1969
0024703- 0024706	F. Gordon Steward			4/9/69	Typed memo	Operating Comments Plant Technical March 1969
0024713- 0024716	F. Gordon Steward			3/12/69	Typed memo	Operating Comments Plant Technical February 1969
0024717- 0024723	A.M. Hauser			2/12/69	Typed memo	Summary of Variances January 1969 Biochem. Div. Newark Plant

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT.	SUBJECT
0024724- 0024728	F. Gordon Steward			2/12/69	Typed memo	Operating Comments Plant Technical January 1969
0024786- 0024788	R. Light E. Prato			11/8/62	Typed chart	Daco Products- Newark Plant Weights & Containers
0024790	MR			12/63	Graph	Temperature- Viscosity Curves for 4# Dacamine Concentrates
0024794- 0024796	F.G. Steward	E. Bak	F.R. Kennedy	1/13/66	Typed memo	Monthly Report- December 1965
0024797- 0024799	F.G. Steward	E. Bak	F.R. Kennedy	12/8/65	Typed memo	Monthly Report- November 1965
0024827						Duplicate of #00014626

AFFIDAVIT OF SERVICE

STATE OF NEW YORK)
 : ss.:
COUNTY OF NEW YORK)

MICHAEL M. GORDON, being duly sworn, deposes and says:

1. I am not a party to this action, am over 18 years of age and reside at 12 West 72nd Street, New York, New York 10023.

2. On September 27, 1982, I served the annexed Notice of Confidentiality and Updated Index of Confidential Documents of Defendant Diamond Shamrock Corporation on each of the persons named on the annexed list by depositing a true copy of same enclosed in a postpaid properly addressed wrapper, in an official depository under the exclusive care and custody of the United States Postal Service within the State of New York.


Michael M. Gordon

Sworn to before me this
27th day of September, 1982


Notary Public

FRIEDA S. MANGULAS
Notary Public, State of New York
No. 24-4664761
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1984

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COPIES OF ALL DOCUMENTS MUST
BE SENT TO:

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Reilly, Like & Schneider
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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015126	F.E. Woodward	E.L. Chandler	C.H. Lighthipe J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/4/68	Typed memo	Dacamine Formulations
00015127	F.R. Kennedy	R.A. Guidi		3/1/68	Typed memo	Field Testing- Dacamines
00015128	Gordon	Mike		2/29/68	Handwritten memo	Field Testing of Dacamines
00015129	Mike	FGS		2/26/68	Handwritten memo	Dacamine Field Testing
00015130	E.L. Chandler	C.H. Lighthipe		2/21/68	Typed memo	Dacamine Formulations
00015131	J.S. Cort, Jr.	C.H. Lighthipe	H.E. Everson E.L. Chandler F.R. Kennedy	2/13/68	Typed memo	Dacamine Formulations
00015132	Supplier of Emulsifier	Michael Kennedy	Eugene Bak	2/6/68	Typed letter	Emulsifier for Dacamine
00015133	Gordon	F.R. Kennedy	M. Rosenfeld	2/2/68	Handwritten memo	Dacamine Bars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015134	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	1/17/68	Typed memo	Dacamine Bars
00015135						Duplicate of #00004648
00015137	F. Gordon Steward	M. Rosenfeld	F.R. Kennedy	12/20/67	Handwritten memo	Dacamine Compatibility with Diesel Fuel
00015138					Typed note	Cover to #s 00015139-00015141
00015139- 00015141				3/27/67	Typed notes	Excerpts From Lab Notebook re Dacamine Bars
00015142	F.R. Kennedy	R.A. Guidi		12/8/67	Typed memo	Dacamine Moisture Specification
00015143	F.R. Kennedy	F.G. Steward		12/1/67	Typed memo	Dacamine Bars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015144						Duplicate of #00014938
0015145- 0015146	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	10/20/67	Handwritten memo	Dacamine-2D Amine/Acid Ratio
0015147	F.R. Kennedy	R.A. Remerscheid		11/14/67	Typed memo	IR Analysis of Dacamine
0015148	F.R. Kennedy	R.A. Guidi		11/10/67	Typed memo	Dacamine Bars
0015149- 0015150	Milt Rosenfeld	Dr. B. Sprayberry		4/5/67	Handwritten memo	Dacamine Bars
0015151- 0015154	R.A. Guidi	M. Rosenfeld		10/18/67	Typed memo & attached patent application	Dacamine Bar
0015155- 0015156	F.G. Steward	G.L. Pratt	F.R. Kennedy R.A. Remerscheid M. Rosenfeld	11/7/67	Typed memo & specifi- cation	Specification for Dacamine
0015157- 0015158						Duplicate of #00015145-00015146

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015159- 00015160	M. Rosenfeld	F. Gordon Steward	F.R. Kennedy	10/12/67	Typed memo	New Dacamine Formulation
00015161	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	9/13/67	Typed memo	Special Dacamine Formulation
00015162- 00015163	M.C. Heisele	F.R. Kennedy	R.A. Guidi R.A. Remerscheid E. Bak F.G. Steward	8/31/67	Typed memo	4# Dacamine-D
00015164	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	8/21/67	Typed memo	Special Dacamine- 4T Mixture
00015165	R.A. Guidi	F.R. Kennedy		7/5/67	Typed memo	Amines For Dacamine
00015166	F.G. Steward	L.L. Henson	F.R. Kennedy	5/22/67	Typed memo	Raw Material For Dacamines
00015167	R.A. Remerscheid	F.R. Kennedy		3/1/67	Typed memo	Dacamine Shipments
00015168	J.C. Kelly	F.R. Kennedy	R.A. Guidi J.O. King	2/28/67	Typed memo	Dacamine-D Shipments to Des Moines
00015169	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/24/67	Typed memo	Dacamine-D Shipments to Des Moines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015170	F.R. Kennedy	R.A. Remerscheid		2/21/67	Typed memo	Dacamine Tank Car Shipments
00015171	F.R. Kennedy	R.A. Guidi		2/17/67	Typed memo	1.4# Dacamine
00015172	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/14/67	Typed memo	1.4# Dacamine-D
00015173	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	2/9/67	Typed memo	Cold Temperature Stability of Dacamines Shipped to Des Moines
00015174	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	2/2/67	Typed memo	Dacamine Compatibi- lity with Fertilizer
00015175	R.A. Guidi	W.H. Pierson	F.R. Kennedy R.A. Remerscheid J.O. King B.A. Sprayberry	10/24/66	Typed memo	Dacamine 4D with Fertilizer
00015176	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/31/67	Typed memo	Changes in Dacamine Formulations
00015177	F.G. Steward	F.R. Kennedy	R.A. Guidi E. Bak M. Rosenfeld	1/25/67	Typed memo	Emulsifiers For Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015178	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy	1/25/67	Typed memo	Emulsifiers For Dacamines
00015179	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	1/25/67	Typed memo	Dacamines From Monsanto Acid
00015180	F.R. Kennedy	R.A. Guidi		1/16/67	Typed memo	Dacamine Samples
00015181	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/9/67	Typed memo	Changes in Dacamine Formulations
00015182	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	1/5/67	Typed memo	Dacamines
00015184	F.G. Steward	L.L. Henson	F.R. Kennedy R.A. Guidi A.T. Hohnhold M. Rosenfeld	12/28/66	Typed memo	Raw Materials For Dacamines
00015185	Gordon	Mike		11/29/66	Handwritten memo	Solvents for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015186- 00015188	B.A. Sprayberry	F.R. Kennedy	M.F. Wilkerson R.A. Guidi E.L. Chandler Milt Rosenfeld	11/23/66	Typed memo	Solvents For Dacamines
00015189- 00015192	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	11/29/66	Typed memo	Dacamines
00015193	F.G. Steward	A.T. Hohnhold	F.R. Kennedy R.A. Guidi L.L. Henson M. Rosenfeld	11/29/66	Typed memo	Amine For Dacamines
00015194- 00015195	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/29/66	Typed memo	Changes in Dacamine Formulations
00015196	F.G. Steward	F.R. Kennedy	M. Rosenfeld	11/14/66	Typed memo	Amines For Dacamines
00015197	R.A. Guidi	F.R. Kennedy				Routing Slip to #00015198-00015199
00015198- 00015199	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi M.F. Wilkerson	11/2/66	Typed memo	Dacamine Distribution Costs

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015200	F.R. Kennedy	R.A. Guidi	B.A. Sprayberry	10/31/66	Typed memo	Amines for Dacamines
00015201	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/26/66	Typed memo	Dacamine Fertilizer Mixture
00015202	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	10/24/66	Typed memo	Dacamine Quality Control
00015203	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	10/13/66	Typed memo	Dacamine - Fertilizer Mixes
00015204	B.A. Sprayberry	F.R. Kennedy	R.A. Guidi T.L. Chandler	10/4/66	Typed memo	Dacamine/Silvex
00015205	B.A. Sprayberry	R.A. Remerscheid	F.R. Kennedy R.A. Guidi H.A. Branson E.L. Chandler J.O. King	9/30/66	Typed memo	Dacamine Fertilizer Mixture
00015206	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	9/27/66	Typed memo	Dacamine - Fertilizer Mixes
00015207	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy J.O. King	9/19/66	Typed memo	Dacamine - Fertilizer Mixes

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015208	H.A. Branson	R.A. Remerscheid	J.O. King	9/12/66	Typed memo	Dacamine-Fertilizer Mixes
00015209	Indiana State Chemist, Dept. of Biochemistry, Agricultural Experiment Station, Lafayette, Ind.			9/9/66	Typed form	Herbicide Inspection Report for Dacamine
00015210	R.A. Remerscheid	F.R. Kennedy				Routing Slip
00015211- 00015212				9/7/66	Typed forms	Ester Formulation (of 4# Dacamine)
00015213	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	9/9/66	Typed memo	Dacamine-Fertilizer Mixes
00015214	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy	8/19/66	Typed memo	DACAMINE With Fertilizer
00015215	F.R. Kennedy	L.L. Henson		9/2/66	Typed memo	Solvent
00015216	F.R. Kennedy	R.A. Guidi		9/2/66	Typed memo	Glass Slides of Dacamine Formulation Shipment - 1961

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015217	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy	9/2/66	Typed memo	Dacamine-Fertilizer Mixes
00015218	L.L. Henson	F.R. Kennedy		8/31/66	Typed memo	Solvent for Dacamines
00015219	F.R. Kennedy	R.A. Guidi		8/31/66	Typed memo	Quality Control For Dacamine Formulations
00015220- 00015221	B.A. Sprayberry	R.A. Guidi	R.A. Remerscheid F.R. Kennedy J.O. King E.L. Chandler	7/29/66	Typed memo	Quality Control For Dacamine Formulations
00015222	R.A. Guidi	F.R. Kennedy R.A. Remerscheid		8/19/66	Typed memo	Quality Control For Dacamine Formulations
00015223	Supplier of Amine	F. Gordon Steward		8/17/66	Typed letter	Amine for Dacamines
00015224	F.G. Steward	F.R. Kennedy	M. Rosenfeld	8/17/66	Typed memo	Dacamine Formulation
00015225	F.G. Steward	B.A. Sprayberry	F.R. Kennedy	7/21/66	Typed memo	Amine for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015226- 00015227	Gordon	Mike		6/4/66	Handwritten memo	Amine For Dacamines
00015228	F.G. Steward	F.R. Kennedy	M. Rosenfeld	5/27/66	Typed memo	Emulsifier for Dacamines
00015229	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/27/66	Typed memo	Emulsifier for Dacamines
00015230						Duplicate of #00015228
00015231- 00015232						Duplicate of #00014982-00014983
00015233- 00015234	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/24/66	Typed memo	Emulsifiers for Dacamines
00015235	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/23/66	Typed memo	Amine for Dacamines
00015236	R.A. Remerscheid	T.J. Neidlinger	E.L. Chandler J.O. King H.A. Branson W.H. Pierson R.A. Guidi B.A. Sprayberry F.R. Kennedy M. Rosenfeld	5/20/66	Typed memo	Dacamine Complaint

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015237- 00015240	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	J.L. Hoblit J.R. Trocki	5/18/66	Typed memo & attached Helpful Hints #24 & #34	Dacamine in Fertilizer Solutions and Proper Technique For Mixing a Dacamine Spray
00015241	F.G. Steward	B. Krienke	F.R. Kennedy	3/25/66	Typed memo	Analysis of Dacamine-4T
00015242	F.G. Steward	F.R. Kennedy	E. Bak	3/23/66	Typed memo	Dacamine Production - 1966
00015243	F.R. Kennedy	R.A. Guidi		3/18/66	Typed memo	Amines for Dacamine
00015244	J.C. Kelly	Gene Bak	F.R. Kennedy R.A. Guidi J.O. King	3/18/66	Typed memo	Dacamine Formulations
00015245						Duplicate of #00015243
00015246- 00015249	M. Rosenfeld	F.G. Steward	F.R. Kennedy	3/4/66	Typed memo	Amines for Dacamines
00015250	F.R. Kennedy	J.O. King	R.A. Guidi	3/11/66	Typed memo	Dacamine Formulations

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015251	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy	3/11/66	Typed memo	2,4-D Dry Acid Requirements
00015252	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	3/9/66	Typed memo	Dacamine and Dacamine 4D Formulation
00015253	Gordon	Mike		3/8/66	Handwritten memo	Solvent
00015254- 00015255	Mike	Gordon		3/8/66	Handwritten memo (2 copies)	Solvent Sample
00015256	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	1/27/66	Typed memo	Solvent
00015257	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	1/31/66	Typed memo	Solvent for Dacamines
00015258	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Solvent for Dacamines
00015259- 00015260	B.A. Sprayberry	Supplier of Solvent	M.F. Wilkerson R.A. Guidi R.A. Remerscheid	2/22/66	Typed letter & attached specs	Solvent Sample

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015261- 00015262	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Dacamine and Dacamine 4D Formulation
00015263					Typed chart	Dacamine Sample Treatments
00015264- 00015265	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	3/2/66	Typed memo & attached recap sheet	Dacamine and Dacamine 4D Formulation
00015266	R.A. Guidi	J.O. King	F.R. Kennedy R.A. Remerscheid B.A. Sprayberry	2/25/66	Typed memo	Dacamine Emulsifiers
00015267	J.O. King	R.A. Guidi	R.A. Remerscheid B.A. Sprayberry F.R. Kennedy	2/23/66	Typed memo	Dacamine Emulsifiers
00015268	M. Rosenfeld	F.G. Steward	F.R. Kennedy	2/24/66	Typed memo	Dacamine Formulations
00015269	R.A. Guidi	F.R. Kennedy			Typed note	Jobs
00015270- 00015271						Duplicate of #00014969-00014970

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015272	F.G. Steward	F.R. Kennedy	M. Rosenfeld	2/24/66	Typed memo	Dacamine Formulation
00015273	Mike	Gordon		2/21/66	Handwritten note	Clearing of Sample
00015274	Gordon	Mike		2/22/66	Handwritten memo	Clearing of Sample
00015275	F.R. Kennedy	R.A. Guidi	F.G. Steward M. Rosenfeld	2/23/66	Typed memo	Dacamine Formulation
00015276	J.C. Kelly	J.O. King	F.R. Kennedy R.A. Guidi M.F. Wilkerson	2/18/66	Typed memo	Dacamine
00015277	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	1/26/66	Typed memo	Storing of Amines
00015278					Typed form	Purchase Requisition
00015279- 00015280	M. Rosenfeld	E. Bak	F.R. Kennedy	1/14/66	Typed memo & attached specs	Solvents

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015281	L.M. Heath			1/7/66	Handwritten lab analysis	Des Moines 2# Dacamine
00015282	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	1/3/66	Typed memo	Storing of Amines
00015283- 00015284				2/28/66	Handwritten charts	Dacamines: Raw Materials, Containers & Labels
00015286	F.R. Kennedy	R.A. Guidi	J.S. Cort, Jr. J.O. King	12/30/65	Typed memo	Dacamine Formulations
00015287- 00015291	M. Rosenfeld	E. Bak		12/27/65	Typed memo	Dacamines - Report on Experiments Run re Formulation
00015292- 00015294						Duplicate of #00013732-00013734

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015295	F.G.S.			12/20/65	Blank typed form	Dacamine Batch Sheet
00015296	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	12/16/65	Typed memo	Assays of Dacamines
00015297	F.R. Kennedy	R.A. Remerscheid	R.A. Guidi	12/9/65	Typed memo	Dacamine Formulations
00015298- 00015300	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/19/65	Typed memo	Dacamine Formulations
00015301	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	11/15/65	Typed memo	4# Dacamine-D Formulation
00015302	F.R. Kennedy	R.A. Guidi		11/9/65	Typed memo	Dacamine Labeling
00015303	Mike			11/7/65	Handwritten memo	Shipment of Dacamine 4D in Early 1966
00015304					Handwritten figures	Dacamine Production Requirements

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015305	J.C. Kelly	F.R. Kennedy	W.J. Byrne	10/28/65	Typed memo	Dacamine Formulations
00015306	M. Rosenfeld	E. Bak	F.R. Kennedy	9/22/65	Typed memo	Emulsifier for Dacamines
00015307	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	9/16/65	Typed memo	Dacamine Formulation
00015308	Supplier of Solvent	Solvent Distributor		9/10/65	Typed letter	Solvent for Dacamines
00015309	J.W. Daniel	F.R. Kennedy	J.S. Cort	7/21/65	Typed memo	Labels
00015310- 00015311	S.S. Szabo Boyce Thompson Instit. For Plant Research, Inc. Diamond Alkali Fellowship	Dr. Schuldt Mr. Sprayberry Mr. Kennedy Dr. Chandler Mr. King Mr. Cort Mr. Davis Dr. R.L. Schauer Dr. Limpel		8/26/65	Typed memo	Volatility Test On Dacamine
00015312	W.A. Goodloe	E. Bak		6/30/65	Typed memo	Dacamine Formulations
00015313	J.S. Cort, Jr.	All Ag Chem Division		6/28/65	Typed memo	Heritage House

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015314	F.R. Kennedy	J.S. Cort, Jr.		6/21/65	Typed memo	Dacamine Formulation- Heritage House
0015315	R.L. Dezember	J.O. King	F.R. King	6/15/65	Typed memo	Dacamine Formulation- Heritage House
0015316- 0015317	M. Rosenfeld	E. Bak	F.R. Kennedy	6/17/65	Typed memo	Dacamine - D/T Concentrate Formulation
0015318	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly R.A. Remerscheid	5/28/65	Typed memo	Dacamine Inventory at Newark
0015319	J.O. King	J.S. Cort, Jr.	F.R. Kennedy R.A. Remerscheid J.C. Kelly	5/27/65	Typed memo	Dacamine Inventory at Newark
0015320	F.R. Kennedy	J.S. Cort, Jr.		5/3/65	Typed memo	Packaged Inventory of Dacamine Formulations
0015320A	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	4/28/65	Typed memo	Packaged Inventory of Dacamine Formulations
0015321				4/28/65	Handwritten notes	Dacamine Inventory

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015322	J.S. Cort, Jr.	F.R. Kennedy	J.O. King	4/28/65	Typed memo	Emulsifier for Dacamines
00015323	M. Rosenfeld	E. Bak	F.R. Kennedy B. Sprayberry	4/14/65	Typed memo	Solvents for Dacamine-D
00015324	F.R. Kennedy	J.S. Cort, Jr.		4/9/65	Typed memo	Dacamine Emulsifier
00015325					Handwritten notes & figures	
00015326	Mike	WGH		3/11/65	Handwritten memo	Inventory on Chemicals From Dacamine Production
00015327	J.C. Kelly	All Ag Chem Specialists	F.R. Kennedy R.A. Remerscheid M.F. Wilkerson J.O. King	3/8/65	Typed memo	Dacamine Formulations
00015328	F.R. Kennedy	B.A. Sprayberry		3/4/65	Typed memo	Dacamine Extendability
00015329	B.A. Sprayberry	F.R. Kennedy		2/19/65	Typed memo	Dacamine Extendability

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015330	F.R. Kennedy	J.O. King	J.S. Cort, Jr. J.C. Kelly R.A. Remerscheid	3/4/65	Typed memo	Dacamine Samples
00015331	J.C. Kelly	F.R. Kennedy	J.S. Cort, Jr. J.O. King	3/2/65	Typed memo	Dacamine Samples
00015332	H.P. Woods	J.C. Kelly	F.R. Kennedy J.O. King J. Jacobs R.A. Remerscheid	3/3/65	Typed memo	Dacamine Promotional Program
00015333	B.A. Sprayberry	All Ag Chem Specialists		2/19/65	Typed memo	Non-Volatility of Dacamine
00015334	J.C. Kelly	H.P. Woods	R.A. Remerscheid F.R. Kennedy K.Y. Lyttle J.O. King	2/18/65	Typed memo	Dacamine Promotional Program
00015335	J.C. Kelly	All Ag Chem Specialists	J.O. King M.F. Wilkerson R.A. Remerscheid F.R. Kennedy	2/18/65	Typed memo	DACAMINE - Promotional Program

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015336	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly J.O. King	2/18/65	Typed memo	DACAMINE Production 1965 - Newark
00015337	F.R. Kennedy	B.A. Sprayberry		1/25/65	Typed memo	Dry Dacamine-D Salt
00015338	M. Rosenfeld	E. Bak	F.R. Kennedy	1/21/65	Typed memo	Dry Dacamine-D Salt
00015339	J.S. Cort, Jr.	R.A. Remerscheid	B.A. Sprayberry E.L. Chandler F.R. Kennedy J.O. King M.F. Wilkerson	1/15/65	Typed memo	New Dacamine Formulations
00015340	F.R. Kennedy	J.S. Cort, Jr.		1/7/65	Typed memo	Dacamine Production
00015341- 00015342				1/6/65	Typed memo	Dacamine Formulation
00015343	B.A. Sprayberry	M.F. Kennedy		1/8/65	Typed memo	New Dacamine Formulations
00015344						Duplicate of #00015343

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015345- 00015346A	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld E. Bak R.A. Remerscheid	1/8/65	Typed memo	New Dacamine Formulations
00015347	Wm. Tobin	Mr. Kennedy Mr. Hill		1/7/65	Typed memo	Dacamine Pumping Operations
00015348- 00015349						Duplicate of #00015341-00015342
00015350					Handwritten notes	Dacamine-4D
00015352- 00015353	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld R.A. Remerscheid	12/28/64	Typed memo	Dacamine-4D Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015354	B.A. Sprayberry	R.A. Remerscheid	E.L. Chandler J.S. Cort F.R. Kennedy J.O. King M.F. Wilkerson	12/15/64	Typed memo	Dacamine Assay
00015355	L.D. Metcalfe	B.A. Sprayberry	M.R. McCorkle R.A. Reck W.W. Abramitis F.R. Kennedy R.A. Remerscheid	12/11/64	Typed letter	Dacamine Analysis
00015356	B.A. Sprayberry	E.L. Chandler	R.A. Remerscheid F.R. Kennedy J.O. King	12/10/64	Typed memo	Dacamine Analysis
00015357	B.A. Sprayberry	E.L. Chandler	J.S. Cort J.O. King F.R. Kennedy R.A. Remerscheid	12/10/64	Typed memo	Dacamine Analysis Demonstration
00015358	F.R. Kennedy	J.C. Kelly		12/4/64	Typed memo	Technical Silvex Procurement
00015359	J.C. Kelly	F.R. Kennedy		12/2/64	Typed memo	Technical Silvex Procurement
00015360	F.R. Kennedy	J.C. Kelly		11/27/64	Typed memo	Technical Silvex

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015361	B.A. Sprayberry	E.L. Chandler	J.O. King R.A. Remerscheid R.F. Kennedy	11/25/64	Typed memo	Dacamine Complaints
00015362		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/25/64	Typed report	Complaint Status Report for Drum of Dacamine
00015363		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/23/64	Typed report	Complaint Status Report for Drum of Dacamine - Cover to #00015364
00015364	E. Luoma	M.F. Kennedy		9/10/64	Typed report	Complaint Report for Drum of Dacamine
00015365	E.R. Luoma	J.O. King	R. Remerscheid	10/9/64	Typed memo	Dacamine Complaint Sample
00015366- 00015367	R.A. Remerscheid	Dr. E.L. Chandler	J.O. King Dr. B.A. Sprayberry M. Rosenfeld F.R. Kennedy	10/22/64	Typed memo	Dacamine Complaint Sample

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015368	J.O. King	R.A. Remerscheid	Dr. E.L. Chandler F.R. Kennedy M. Rosenfeld Dr. B.A. Sprayberry	11/9/64	Typed memo	Dacamine 4-D Complaint Sample
00015369- 00015370	R.A. Remerscheid	J.O. King	Dr. E.L. Chandler Dr. B.A. Sprayberry F.R. Kennedy M. Rosenfeld	11/13/64	Typed memo	DACAMINE 4-D Complaint Sample
00015371- 00015372						Duplicate of #00015369-00015370
00015373	M. Rosenfeld	E. Bak	F.R. Kennedy R.A. Remerscheid	11/13/64	Typed memo	2# Silvex Specs
00015374						Duplicate of #00015368
00015375	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	10/27/64	Typed memo	2# Silvex Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015376- 00015377						Duplicate of #00015366-00015367
00015378	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	9/29/64	Typed memo	Dacamine Complaint Samples
00015379	F.R. Kennedy	J.C. Kelly	J.O. King	9/11/64	Typed memo	Silvex
00015380	J.C. Kelly	R.A. Remerscheid F.R. Kennedy	J.O. King	8/21/64	Typed memo	Silvex
00015381	J.C. Kelly	J.O. King		8/11/64	Typed memo	Silvex
00015382- 00015384	E.L. Chandler	File	F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid	7/31/64	Typed memo	Dacamine Complaints & Field Test
00015385	R.A. Remerscheid	H.A. Kohrmann	J.O. King Dr. E.L. Chandler F.R. Kennedy	7/29/64	Typed memo	Dacamine 4-D Analysis
00015386- 00015388	R.A. Remerscheid	J.S. Cort, Jr.		7/28/64	Typed memo	Dacamine Complaints

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015389	F.R. Kennedy	H. Kohrmann	J.O. King E.L. Chandler R.A. Remerscheid	7/27/64	Typed memo	Analysis of Dacamine 4-D Complaint Sample
00015390	Howard A. Kohrmann	F.R. Kennedy	J.O. King E.L. Chandler	6/8/64	Handwritten memo	Samples of Water & Dacamine re Complaint
00015391	F.R. Kennedy	J.S. Cort, Jr.	E.L. Chandler R.A. Remerscheid J.O. King	7/27/64	Typed memo	Dacamine Complaints
00015392	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	7/15/64	Typed memo	Dacamine Complaints
00015393	R.A. Remerscheid	Dr. R.J. Marrese	F.R. Kennedy E.R. Luoma Orville Oyleo	7/15/64	Typed memo	Dacamine Solvents
00015394	H.A. Branson	F.R. Kennedy	J.O. King	5/6/64	Typed memo	Dacamine Sample
00015395				7/13/64	Typed chart	Dacamine Complaint Samples

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015396	R.A. Remerscheid	Dr. E.L. Chandler	F.R. Kennedy	7/13/64	Typed memo	Amine
00015397- 00015408	Supplier of Amine	R. Remerscheid		6/30/64	Typed letter & attachments	Data on Supplier's Amines
00015409					Handwritten notes	Dacamine Complaints
00015410	E.L Chandler	R.A. Remerscheid	F.R. Kennedy Milt Rosenfeld	7/9/64	Typed memo	Dacamine Quality Control
00015411- 00015412A	F.R. Kennedy	M.F. Wilkerson		5/4/64	Typed memo & attached figures	Dacamine D & T Formulations
00015413					Handwritten figures	Manufacturing Costs for Dacamines
00015414	Mike	RFG		1/29/64	Handwritten memo	Sample of Amine
00015415	F.R. Kennedy	H.A. Branson		4/29/64	Typed memo	Competitor's "Dacamine"

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015416	F.R. Kennedy	J.C. Kelly	J.O. King	4/13/64	Typed memo	Dacamine Inventory
00015417	J.C. Kelly	F.R. Kennedy	C.W. Feinberg J.O. King R.M. Hopkins	3/31/64	Typed memo	Dacamine Inventory
00015418	Chet Feinberg	J.C. Kelly	T. Hammer	3/23/64	Typed memo	Dacamine Inventory
00015419	R.A. Remerscheid	J.C. Kelly	J.S. Cort, Jr. J.O. King F.R. Kennedy	3/5/64	Typed memo	Dacamine Herbicides
00015420	J.C. Kelly	R.A. Remerscheid	J.O. King J.S. Cort, Jr. F.R. Kennedy	3/2/64	Typed memo	Dacamine Packaging
00015421	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy J.O. King W.J. Hotes	2/28/64	Typed memo	Dacamine Raw Material Requirements
00015422	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	2/25/64	Typed memo	Dacamine Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015423- 00015424	F.R. Kennedy	C.W. Feinberg	J.C. Kelly	2/25/64	Typed memo & attached notes	Dacamine Formulation Shipments
00015425	J.C. Kelly	F.R. Kennedy	R.A. Remerscheid C.W. Feinberg	2/21/64	Typed memo	Dacamine Shipments
00015426	M.F. Wilkerson	F.R. Kennedy	J.S. Cort, Jr. J.O. King R.A. Remerscheid	2/18/64	Typed memo	Dacamine Containers
00015427- 00015428	Mike	Dick		1/30/64	Handwritten memo & figures on shipment	Shipment of Dacamines
00015429	F.R. Kennedy	M.F. Wilkerson	J.S. Cort, Jr. J.O. King R.M. Remerscheid	1/31/64	Typed memo	Dacamine Formulations
00015430	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy	1/25/64	Typed memo	Dry T Acid Requirements
00015431	J.C. Kelly	R.A. Remerscheid	J.O. King	11/22/63	Typed memo	Dacamine Inventory

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015432	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	11/21/64	Typed memo	Dacamine-2D Formulation
00015433	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy W.E. Hill, Jr.	1/20/64	Typed memo	Dacamine-2D and -2T Formulations
00015434				1/17/64	Typed figures	Inventory of Dacamines
00015435	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	1/24/64	Typed memo	Dacamine Formulation
00015436- 00015437	M. Rosenfeld	R.F. Lindemann		1/16/64	Typed memo	2# Dacamine Formulation
00015438	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy B.A. Sprayberry	12/16/63	Typed memo	Cover Note to #00015439
00015439	M.R.			12/63	Handwritten graph	Temperature-Viscosity Curves For 4# Dacamine Concentrates
00015440						Duplicate of #00015395
00015441						Duplicate of #00015395

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015443- 00015444						Duplicate of #000150004-00015005
00015445- 00015452	Diamond Alkali Co.				Typed data with attached charts & graph	Dacamine Specifications
00015453	W.E. Hill, Jr.	J.C. Kelly	F.R. Kennedy	12/5/63	Typed memo	Dacamine Containers
00015454	J.C. Kelly	F.R. Kennedy	J.O. King M.F. Wilkerson	11/29/63	Typed memo	Dacamine Containers and Raw Materials
00015455						Duplicate of #00015431
00015456		Dick Light Mike			Handwritten memo	Shipping Costs

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015457	R.A. Remerscheid	J.C. Kelly	J.O. King F.R. Kennedy	11/25/63	Typed memo	Dacamine Raw Materials
00015458	B.A. Sprayberry	F.R. Kennedy	J.O. King H.A. Branson	12/5/63	Typed memo	Dacamine Viscosity
00015459	F.R. Kennedy	R.M. Remerscheid	J.S. Cort, Jr.	11/21/63	Typed memo	Dacamines (cover to #00015460-00015461)
00015460- 00015461				11/21/63	Typed memo	Mixing of Dacamine Formulations
00015462						Duplicate of #00015452
00015463	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	11/20/63	Typed.. memo	Dacamines
00015464	F.R. Kennedy	J.S. Cort, Jr.		11/20/63	Typed memo	Dacamines
00015465	R.F. Lindemann	R.A. Remerscheid		11/20/63	Typed memo	Dacamine Raw Materials
00015466	J.S. Cort, Jr.	F.R. Kennedy	R.A. Remerscheid	11/18/63	Typed memo	Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015467	F.R. Kennedy	J.P. McHaney	J.O. King	10/16/63	Typed memo	Analysis of Dacamine Sample
00015468	R.A. Remerscheid	J.C. Kelly	F. Kennedy	9/18/63	Typed memo	Dacamine Shipments
00015469	R.F. Lindemann	J.W. Daniel	R.A. Guidi	5/31/63	Typed memo	Analysis of Dacamine Samples
00015470	R.F. Lindemann	F.R. Kennedy	R.A. Guidi W.E. Hill, Jr.	3/25/63	Typed memo	Suitability of Dry Acid For Dacamine
00015471						Duplicate of #00015470
00015472	M. Rosenfeld	R.F. Lindemann	V. Cayton R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Preparation of Amine Salt of 2,4-D
00015473	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Amine for Dacamines
00015474	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/4/63	Typed memo	Preparation of Experimental Dacamine Sample
00015475- 00015476	R.J. Marrese	E.L. Chandler	Roy Davis A.L. Galloway R.A. Guidi J.O. King P.H. Schuldt D.M. Warburton	1/22/63	Typed memo	Dacamine Patentability

8878

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015477	A.L. Galloway	R.J. Marrese	R.A. Guidi J.O. King P.H. Schuldt	12/31/62	Typed memo	Dacamine Formulations - Patent Rights
00015478	R.A. Remerscheid	R.A. Guidi	J.C. Kelly	1/15/63	Typed memo	Dacamine Requirements
00015479	R.A. Guidi	R.A. Remerscheid	E. Luoma	1/7/63	Typed memo	Dacamine Mix
00015480	R.A.G.	W.E.H. R.F.L. M.R.		1/3/63	Handwritten note	Cover Note
00015481	R.A. Remerscheid	R.A. Guidi		12/18/62	Typed memo	Dacamine Requirements 1963
00015482	E.R. Luoma	R. Remerscheid	J.O. King R.R. Wood	12/14/62	Typed memo	Dacamine Requirements 1963
00015483	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	1/3/63	Typed memo	Preparation of Amine Salt Sample
00015484- 00015485				1/17/63	Hand filled-in chart	Raw Materials Standards for 4# Dacamine T & D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015486					Handwritten note	Dacamine - 1962
00015487						Duplicate of #00015477
00015488	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	12/14/62	Typed memo	Dacamine Formulations - Patent Rights
00015489	Supplier of Amine	R.A. Guidi		12/11/62	Typed letter	Amine for Dacamines
00015490	R.A. Remerscheid	R.A. Guidi		11/1/62	Typed memo	Estimated Dacamine Requirements 1963
00015491	R.A. Guidi	R.J. Marrese		10/31/62	Typed memo	Dacamine Silvex
00015492	R.J. Marrese	R. Guidi		10/25	Telex	Inventory of Dacamine Silvex
00015493	R. Guidi	R.J. Marrese		10/26	Telex	Silvex Acid for Conversion to Dacamine

FILED
IN CLERK'S OFFICE
U.S. DISTRICT COURT E D N.Y.

★ JUL 28 1982 ★

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

TIME A.M.
P.M.

-----X

In re

: MDL No. 381

"AGENT ORANGE"

: NOTICE OF CONFIDENTIALITY
: AND INDEX OF CONFIDENTIAL
: DOCUMENTS OF DEFENDANT
: DIAMOND SHAMROCK CORPORATION

Product Liability Litigation

:

-----X

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8880

932

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July 26, 1982

Clerk
United States District Court
United States Courthouse
Uniondale Avenue at Hempstead Turnpike
Uniondale, New York 11533

RECEIVED
CHAMBERS OF GEORGE C. PRATT
U. S. D. J.
JUL 28 1982

Re: In re "Agent Orange" Product
Liability Litigation,
MDL No. 381

Dear Sir:

I enclose for filing the Notice of
Confidentiality and Index of Confidential Docu-
ments of Defendant Diamond Shamrock Corporation
dated July 26, 1982, which was served by mail today.

Thank you for your attention to this matter.

Very truly yours,

Michael M. Gordon

Michael M. Gordon

MMG/mam
Enclosure
cc(w/encl.): Hon. Sol Schreiber
Attached Service List

8881

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

In re	:	MDL No. 381
	:	NOTICE OF CONFIDENTIALITY
"AGENT ORANGE"	:	AND INDEX OF CONFIDENTIAL
	:	DOCUMENTS OF DEFENDANT
Product Liability Litigation	:	<u>DIAMOND SHAMROCK CORPORATION</u>

-----X

Defendant Diamond Shamrock Corporation ("Diamond Shamrock"), pursuant to the Protective Order regarding Production of Confidential Documents by Defendants dated February 6, 1981 (the "Confidentiality Order"), and the Stipulation between Diamond Shamrock and lead counsel for plaintiffs dated June 25, 1982, annexes hereto its Notice of Confidentiality and Index of Confidential Documents for those documents referenced by Diamond Shamrock's Index of Documents Responding to Plaintiffs' Interrogatories to Defendants (First Wave), Revised as of June 25, 1982, which Diamond Shamrock has designated as "CONFIDENTIAL".

In accordance with paragraph 14 of the Confidentiality Order, Diamond Shamrock reserves its right to prepare and distribute further notices of confidentiality and indexes as the need arises, and to avail itself of the procedures set forth in the

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Chicago, Illinois 60603

COPIES OF ALL DOCUMENTS MUST
BE SENT TO:

Clerk of the Panel
Judicial Panel on Multidistrict
Litigation
1120 Vermont Avenue, N.W.
Suite 1002
Washington, D.C. 20005

FOR PLAINTIFFS

Victor J. Yannacone, Jr.
(lead counsel)
Yannacone & Yannacone
Post Office Drawer #109
Patchogue, New York 11772

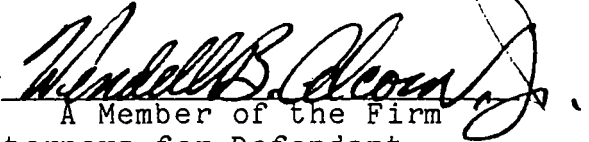
Irving Like, Esq.
Reilly, Like & Schneider
200 West Main Street
Babylon, N. Y. 11702

Confidentiality Order for the documents identified therein.

Dated: New York, New York
July 26, 1982

CADWALADER, WICKERSHAM & TART

By



A Member of the Firm
Attorneys for Defendant
Diamond Shamrock Corporation
One Wall Street
New York, New York 10005
(212) 908-7000

TO: ATTACHED SERVICE LIST
HON. SOL SCHREIBER

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000149- 00000150	M. Rosenfeld	F. Gordon Steward	R. Chonoles G.L. Pratt	6/19/69	Typed memo	4# Singleshot Formulation
00000151	Gordon	Bob	M. Rosenfeld	5/1/69	Handwritten memo	Replacement for Emulsifier
00000152	E.G. Weierich	F. Gordon Steward	J. Fleming	4/29/69	Typed letter	Answer to Steward's request for substi- tute for Emulsifier
00000154	F. Gordon Steward	E. Weierich	R. Chonoles J. Flemming G.L. Pratt	3/10/69	Typed memo	Substitute Amine For Singleshot
00000164- 00000165	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	11/6/67	Typed memo	Singleshot
00000166	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	9/14/67	Typed memo	Singleshot-Patent Situation
00000167	M. Rosenfeld	F.G. Steward	F.R. Kennedy	8/15/67	Typed memo	Patent Infringement- Singleshot

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000168	F.G. Steward	F.R. Kennedy	M. Rosenfeld	7/26/67	Typed memo	Patent Infringement- Singleshot
00000169	F.G. Steward			1/17/63	Cost sheet	Singleshot
00000170- 00000171	F. Gordon- Steward	F.R. Kennedy	M. Rosenfeld	6/22/67	Handwritten note	Patent Infringement- Singleshot

9898

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000175	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	3/23/67	Typed memo	Crop Rider 322-the Results of Test
00000176	R.L. Urbanowski	F.G. Steward	R.A. Guidi F.R. Kennedy B.A. Sprayberry	3/21/67	Typed memo	Crop Rider 322 Singleshot
00000178	R.A. Guidi	F.R. Kennedy		2/27/67	Typed memo	Request for "Cold Storage Stability Data" for Crop Rider 322
00000180- 00000181	M. Rosenfeld	F.G. Steward	F.R. Kennedy	1/3/67	Typed memo	Singleshot-Progress Report on Search to Find a Suitable Amine

8887

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000404- 00000411	F. Gordon Steward	S. Greenbaum	R. Chonoles W.A. Goodloe G.M. Salvatto	2/19/69	Handwritten report	Ester Production at Newark
00000651					Typed chart	Agricultural Chemicals Division Plant Capacities - 1967
00000652					Typed data	Agricultural Chemicals Division Conversion Data- 1967
00000653	R.L. Urbanowski	H.V. Jackson F.G. Steward	R.A. Guidi F.R. Kennedy J.R. Trocki	12/18/67	Typed memo	Plant Capacities and Conversion Data

8888

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000654						Duplicate of #00000651
00000655						Duplicate of #00000652
00000657- 00000659	R.L. Urbanowski	F.G. Steward	R.A. Guidi F.R. Kennedy	9/22/66	Typed memo and attached table and data	Newark Plant Capacity
00000758	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner P.E. Johnson	7/10/69	Typed memo	Dacamine emulsifiers

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000759	P.E. Johnson	P.J. Koskey	J.A. Ignatoski B.D. Knoblock F.G. Steward H.S. Weiner	7/11/69	Typed memo	Substitution of Ingredients in Proprietary Herbicides
00000760	F. G. Steward	P.E. Johnson	R. Chonoles R.A. Guidi P.J. Koskey M. Rosenfeld H.S. Weiner	5/26/69	Typed memo	Dacamine Raw Materials
00000761	Milt	Gordon		3/31/69	Handwritten memo	Emulsifiers for Dacamines in Mexico
00000762	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	3/10/69	Typed memo	Dacamine Emulsifiers
00000763	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles P.J. Koskey	3/10/69	Typed letter	Sample of Emulsifier
00000764- 00000765	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	2/27/69	Handwritten memo	Dacamine in Mexico
00000766	Gordon	M.R.		2/13/69	Handwritten memo	Dacamine in Mexico

16918

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000767	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner	1/31/69	Typed memo	Dacamine Emulsifiers
00000768	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	12/13/68	Typed memo	Dacamine Manufacture in Mexico
00000769	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	11/27/68	Typed memo	Dacamine Manufacture in Mexico
00000770	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock P.J. Koskey H.S. Weiner	11/27/68	Typed letter	Sample of Amine and 2# Dacamine
00000771	Paul J. Koskey	F.G. Steward	B.D. Knoblock R.A. Guidi H.S. Weiner	11/19/68	Typed memo	2,4-D Acid - Polaquimia - Additional Samples
00000773- 00000775	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Weiner M. Rosenfeld	11/5/68	Typed memo	Dacamine Manufacture in Mexico

8092

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000776	G.L. Pratt			6/13/67	Typed report	Spec. No: 71-3231 Product: 2# Dacamine- D Weed Killer (Oil Soluble)
00000777	Supplier				Printed chart	Aromatics/Solvency Tests
00000779	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner V. Contreras R.A. Guidi	10/9/68	Typed memo	Dacamine Manufacture in Mexico
00000780	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock S.S. Savage H.S. Weiner	9/23/68	Typed letter	Raw Materials for Manufacture of Dacamine
00000781	R.A. Guidi	F.R. Kennedy	S.S. Savage B.D. Knoblock H.S. Weiner Valentine Contreras Flores	9/3/68	Typed memo	Dacamine - Mexico
00000782	Gordon	M.R.		9/10/68	Handwritten memo	Dacamine Raw Material Samples
00000981- 00000982	F. Gordon Steward			10/12/66	Typed report	Pages 2 and 3 of something re: Esters and Dacamines

3393

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001023- 00001025	F. Gordon Steward			2/8/67	Typed report	Operating Comments Plant Technical January 1967
00001026	FGS			2/8/67	Typed data	Operating Data January 1967
00001035- 00001036	F. Gordon Steward			3/8/67	Typed report	Operating Comments Plant Technical February 1967
00001037	FGS			3/8/67	Typed data	Operating Data February 1967
00001046- 00001048	F. Gordon Steward			4/12/67	Typed report	Operating Comments Plant Technical March 1967
00001049	FGS			4/12/67	Typed data	Operating Data March 1967
00001061- 00001063	F. Gordon Steward			5/10/67	Typed report	Operating Comments Plant Technical April 1967
00001064	FGS			5/10/67	Typed data	Operating Data April 1967

8694

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001073- 00001075	F. Gordon Steward			6/7/67	Typed report	Operating Comments Plant Technical May 1967
00001076	FGS			6/7/67	Typed data	Operating Data May 1967
00001084- 00001086	F. Gordon Steward			7/12/67	Typed report	Operating Comments Plant Technical June 1967
00001087	FGS			7/12/67	Typed report	Operating Data June 1967
00001107- 00001109	F. Gordon Steward			9/13/67	Typed report	Operating Comments Plant Technical August 1967
00001110				9/13/67	Typed data	Operating Data August 1967
00001119- 00001121	F. Gordon Steward			10/11/67	Typed report	Operating Comments Plant Technical September 1967
00001122	FGS			10/11/67	Typed data	Operating Data September 1967

8895

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001129- 00001131	F. Gordon Steward			11/8/67	Typed report	Operating Comments Plant Technical October 1967
00001132	FGS			11/8/67	Typed data	Operating Data October 1967
00001169- 00001171	F. Gordon Steward			2/7/68	Typed report	Operating Comments Plant Technical January 1968
00001172	FGS			2/7/68	Typed data	Operating Data January 1968
00001193- 00001195	F. Gordon Steward			4/10/68	Typed report	Operating Comments Plant Technical March 1968
00001196	FGS			4/10/68	Typed data	Operating Data March 1968
00001206- 00001209	F. Gordon Steward			5/8/68	Typed report	Operating Comments Plant Technical April 1968
00001210	FGS			5/8/68	Typed data	Operating Data April 1968

9698

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001219- 00001221	F. Gordon Steward			6/11/68	Typed report	Operating Comments Plant Technical May 1968
00001222	FGS			6/12/68	Typed data	Operating Data May 1968
00001231- 00001233	F. Gordon Steward			7/10/68	Typed report	Operating Comments Plant Technical June 1968
00001234					Typed data	Operating Data June 1968
00001253- 00001254	F. Gordon Steward			9/11/68	Typed report	Operating Comments Plant Technical August 1968
00001255	FGS			9/11/68	Typed data	Operating Data August 1968
00001262- 00001264	F. Gordon Steward			10/9/68	Typed report	Operating Comments Plant Technical September 1968
00001265	FGS			10/9/68	Typed data	Operating Data September 1968

8897

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001285- 00001287	F. Gordon Steward			12/11/68	Typed report	Operating Comments Plant Technical November 1968
00001288	FGS			12/11/68	Typed data	Operating Data November 1968
00001459- 00001460	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Wiener	5/21/69	Typed memo	Trichlorophenol & Sodium Trichlorophenate Polaquimia, S.A.
00001730	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	3/21/68	Typed memo	Dacthal
00001731					Handwritten chart	Dacthal
00001732- 00001733	JM	F.G.	F.R.	3/8/68	Handwritten memo & invoice	Inventory of Ingredient
00001747	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	11/7/67	Typed memo	New Proposed Product
00001748- 00001749	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	10/20/67	Handwritten memo	Meeting with NOPCO
00001750- 00001752	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/12/67	Typed memo	Dacthal (with attached charts)

8698

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0001763	F. Gordon Steward	C. Gustafson	F.R. Kennedy	4/26/67	Typed memo	Hexachlorobenzene
0001764	K. Shaffert			11/18/53	Typed report	Abstract of Joint Army/Navy Specifica- tion H257 for Hexa- chlorobenzene
0001765	M. Rosenfeld	J. Burton	W.J. Esselstyn	8/4/58	Typed memo	Hexachlorobenzene
0001766	M. Rosenfeld	J. Burton		10/10/58	Typed memo	Hexachlorobenzene
0001767- 0001768	J.M.	F.R.K.	F.G. Steward	3/31/67	Handwritten memo	Telephone Conversa- tion with Supplier
0001769	M. Rosenfeld	F.G. Steward	F.R. Kennedy	1/6/67	Typed memo	Solvent
0001770	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.L. Urbanowski	12/13/66	Typed memo	Treflan
00002262						Duplicate of #000003755
00003251- 00003252	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy J.P. McCabe	10/7/69	Typed memo	Dacamine Emulsification
00003253- 00003256	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	2/28/69	Typed memo	Dacamine-4D Progress Report

8899

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00003479- 00003480						Duplicate of #00001459-00001460
00003481- 00003482						Duplicate of #00001459-00001460
00003755- 00003756	F.R. Kennedy	R.A. Guidi		1/11/68	Typed memo and attached graph	Cost Breakdown for Gov't "Orange"
00003757- 00003758						Duplicate of #00003755-00003756
00003793	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004058- 00004060				10/8/65	Handwritten figures	245-T Acid 84,000# STD
00004061- 00004063						Duplicate of #00004058-00004060
00004067	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture
00004070- 00004074				7/13/65	Handwritten notes	U.S. Gov't Invitation to Bid.
00004222- 00004227				January 1968	Typed and handwritten form	Monthly Inventory Report
00004228- 00004246				1/68	Handwritten information	Formulation Processes

0068

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004507	S.B. Greenbaum	R. Chonoles		2/28/69	Typed memo	Preparation of Isopropyl Esters
00004508	S.B. Greenbaum	F. G. Steward	R. Chonoles	2/27/69	Typed memo	Method for Prepara- tion of Isopropyl Esters
00004509	S.B. Greenbaum	F.G. Steward		2/28/69	Typed memo	Addendum to #00004508
00004511- 00004518						Duplicate of #00000404-00000411
00004519 00004520	F. Gordon Steward	R.A. Guidi	F.R. Kennedy	8/4/66	Typed memo	Butyl-D Ester Plant
00004561- 00004562						Duplicate of #00004519-00004520

8901

8302

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004563	F.G. Steward			8/3/66	Handwritten diagram	Butyl-D Ester Plant 5.4 mm lb/yr
00004620	C.L. Troph	All Field Sales Personnel All Tech Servicemen	R.L. Dezember C.J. Galley P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatoski G.L. Pratt J.O. King R.L. Urbanowski	2/6/69	Typed memo	Dacamine Wax Bars
00004621- 00004624	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	3/4/69	Typed memo with hand- written attachments	2,4-D Bars
00004625	Gordon	Mike		8/16/68	Handwritten memo	Amine for Dacamines
00004626	Supplier	F. Gordon Steward	Supplier's Representatives	8/12/68	Typed letter	Sample of Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0004629	F.G. Steward			5/21/68	Handwritten inventory	Inventory of Special Dacamine Formulations
0004631	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld T.J. Neidlinger	8/8/68	Typed memo	Dacamine Bars
0004632- 0004633	F.G. Steward			8/8/68	Handwritten inventory	Inventory of Special Dacamine Formulations
0004635	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	8/9/68	Typed memo	Dacamine Bar Field Tests
0004636						Duplicate of #00004632
0004637	F. Gordon Steward	Supplier	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	8/9/68	Typed letter	Sample of Amine for Dacamines
0004638	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	6/20/68	Handwritten memo	Dacamine Bars

8904

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004642	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	6/24/68	Typed memo	Dacamine Bars
00004643- 00004644	F.G. Steward			6/24/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004646	F.G. Steward	R.L. Urbanowski	F.R. Kennedy T.J. Neidlinger M. Rosenfeld	4/26/68	Typed memo	Dacamine Bars
00004648	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.L. Urbanowski	1/3/68	Typed memo	Dacamine Bars
00004649	Gordon	Mike		3/27/68	Handwritten memo	Amine Sample for Dacamines
00004650- 00004651	F. Gordon Steward	F.R. Kennedy	E. Bak M. Rosenfeld	3/27/68	Handwritten memo	Amine for Dacamines
00004652	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	4/4/68	Typed memo	Amine for Dacamines
00004653	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	L.L. Henson	2/14/68	Typed memo	Dacamine
00004654	L.L. Henson	R.A. Guidi		2/28/68	Typed memo	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004655	Dr. E.L. Chandler	Dr. E.F. Woodward	C.H. Lighthouse H.A. Batley J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/27/68	Typed memo	Dacamine Formulations
00004656	R.A. Guidi	M. Rosenfeld	E.G. Weierich F.R. Kennedy R.L. Urbanowski		Typed memo	Dacamine Emulsifiers
00005079- 00005081	Paul H. Schuldt Boyce Thompson Inst. Yonkers, N.Y.	L. Gordon Utter	Dr. Chandler	11/21/60	Typed letter & attached chart	Volatility Tests on Esters
00005083	J.R. Clark	R.A. Guidi	F.R. Kennedy	11/3/60	Typed memo	D&T Esters from Supplier's Alcohols
00005085	R.A. Guidi	E.G. Osborne	T.O. Evrard J.O. King	12/21/60	Typed memo	4# Lo-V Fomulation for use with Liquid Fertilizer
00005086	J.R. Clark	F.R. Kennedy	R.A. Guidi T.O. Evrard	12/19/60	Typed memo	4# 2EH-D for Liquid Fertilizer

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005190- 00005192	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #147	11/2/60	Typed memo	Precipitates in Low Volatile Ester Formulations
00005193	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #146	11/19/60	Typed memo	Precipitates in Ester Formulations
00005194	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	12/12/67	Handwritten memo	Amine for Dacamines
00005195	M. Rosenfeld	F.G. Steward	F.R. Kennedy	11/6/67	Typed memo	Amine for Dacamines
00005196	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/10/67	Typed memo	Amine for Dacamines
00005262	J.R. Clark	M. Rosenfeld	J.A. Borrer R.A. Guidi F.R. Kennedy	10/13/61	Typed memo	3.34# Isopropyl-T
00005281- 00005282	J.R. Clark	M. Rosenfeld	R.A. Guidi F.R. Kennedy CF #153	3/10/61	Typed memo	Invert Emulsions of 2EH-T
00005416- 00005417	A.C.	J. Burton	J. Ginos C. Feinberg R. Guidi J. Browne	11/5/57	Handwritten memo	Esterification of Isopropyl-D Esters

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005457- 00005458	J.C. Kelly	R.A. Guidi	J.O. King H.S. Weiner	2/16/61	Typed memo and attached memos	Revised Requirements of 2,4-D
00005540	F.R. Kennedy	J.S. Cort, Jr.		6/24/64	Typed memo	Dry 2,4-D Appropriation
00005549	F.R. Kennedy	V.C. Cayton	J.S. Cort, Jr.	5/6/64	Typed memo	Drying D-Acid
00005550	V.C. Cayton	F.R. Kennedy	J.S. Cort, Jr.	5/4/64	Typed memo	Drying Facilities for D Acid
00005568	V.C. Cayton	F.R. Kennedy		5/19/64	Typed memo	Drying D-Acid
00005577	R.F. Lindemann	F.R. Kennedy		3/25/63	Typed memo	Availability of Dry Acid for Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005578						Duplicate of #000005577
00005579						Duplicate of #00005577
00005580						Duplicate of #00005577
00005581						Duplicate of #00005577
00005724- 00005726				10/7/57	Handwritten notes	2,4-D Costs
00006463	R.A. Remerscheid	F.R. Kennedy	M. Rosenfeld	7/29/64	Typed memo	Sludge - 1964 Ester Formulations

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007585	F.G. Steward	G.L. Pratt	R. Chonoles R.L. Dezember R.A. Remerscheid	4/22/69	Typed memo	Dacamine 4D Batch Numbers DM-108 and DM-122
00007593	F. Gordon Steward	R. Chonoles	G.M. Salvatto	10/29/68	Handwritten memo	Dacamine-4 Complaint
00007594- 00007596	G.M. Salvatto	F.G. Steward		10/16/68	Handwritten memo	Sediment Formation in Dacamine-4D
00007597	Gordon	Mike		7/23/68	Handwritten memo	Dacamine Complaint
00007601						Duplicate of #00007597
00007613	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	1/17/69	Typed memo	Dacamine - 4D Complaint

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007641	F.G. Steward	F.R. Kennedy	R.A. Guidi R.A. Remerscheid	7/25/68	Typed memo	Dacamine Complaint
00007744	F.R. Kennedy	B.A. Sprayberry	R.A. Guidi H.A. Branson	6/9/67	Typed memo	Dacamine Complaint.
00007772	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	11/2/67	Typed memo	Dacamine Complaint
00007969- 00007970						Duplicate of #00000149-00000150
00007971- 00007972						Duplicate of #00000149-00000150
00007975						Duplicate of #00000151
00007976						Duplicate of #00000152
00007982						Duplicate of #00000154

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007984	F.R. Kennedy	R.A. Guidi		11/21/67	Typed memo	Emulsifier for Singleshot
00007985						Duplicate of #00000176
00007988						Duplicate of #00000175
00007989						Duplicate of #00000178
00007991						Duplicate of #00000166
00007992	R.A. Guidi	F.R. Kennedy	J.O. King	1/8/68	Typed memo	Emulsifier for Singleshot
00007994	E.L. Chandler	J.O. King	J.S. Cort, Jr. R.A. Guidi F.R. Kennedy H.A. Branson J.L. Freer	12/5/67	Typed memo	Emulsifier for Singleshot

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007995	J.O. King	R.A. Guidi	E.L. Chandler F.R. Kennedy	11/29/67	Typed memo	Singleshot
00007996- 00007997						Duplicate of #00000164-00000165
00007998						Duplicate of #00000168
00007999	Gordon	Mike		6/29/67	Handwritten memo	Singleshot
00008000		Gordon		6/28/67	Handwritten memo	Singleshot
00008001						Duplicate of #00000169
00008002- 00008003						Duplicate of #00000170-00000171

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008014	R.A. Guidi	F.R. Kennedy	J.O. King	1/25/68	Typed memo	Singleshot
00008015	F.R. Kennedy	R.A. Guidi	E.L. Chandler M. Rosenfeld	2/19/68	Typed memo	Singleshot Labels
00008017	Mike	M.R.			Handwritten notes	Singleshot Labels
00008024- 00008025						Duplicate of #00000180-00000181
00008026- 00008027						Duplicate of #00000164-00000165
00008029						Duplicate of #00000166
00008030						Duplicate of #00000167

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008031						Duplicate of #00000167
00008032						Duplicate of #00000168
00009302	F.R. Kennedy	C. Feinberg		9/24/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009303	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	9/12/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009514						Duplicate of #00000175
00009664- 00009668	W.J. Esselstyn	J. Burton	L.J. Polite, Jr.	5/29/59	Typed memo and attached Technical Information Bulletin	Technical Information Bulletin Diamond Organic Products

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009896	G. Claudio	F.R. Kennedy	A.F. Marks	10/23/74	Typed memo	2,4-D Acid for Dacamines
00009899	G. Claudio	A.F. Marks	F.R. Kennedy G.D. Munger	7/29/74	Typed memo	Newark 2,4-D Acid
00009907	C.D. Hildebrecht	P.H. Schuldt	R.S. DePablo C.L. Dunning R.L. Urbanowski	2/11/65	Typed memo	Vapor Pressures of 2,4-D Products
00009930- 00009937	V.C. Cayton	F.W. Jarvis		3/19/62	Typed memo & attached report	Dacamines
00009951	C.L. Dunning	E.L. Chandler	D.E. Stallard	12/27/61	Typed memo	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009954	D.E. Stallard	C.L. Dunning	H.E. Everson J.O. King P.H. Schuldt L.G. Utter	7/19/61	Typed memo	Meeting with the Chlorinated Products Division - July 18, 1961
00009986	J.L. Hazen	R.W. Fraley	J.A. Ignatowski A.F. Marks D. Spranklin D. Swallow	11/19/79	Typed memo	Formulation of Fallek-Lankro Technical 2,4-D Acid
00009988- 00010006					Typed memo & attached tables and graphs	Study of Method for Analysis of Diamond Shamrock 2,4-D Formulated Products
00010010- 00010012						Duplicate of #00005079-00005081
00010014	J.R. Clark	L.G. Utter	R.A. Guidi F.R. Kennedy	10/26/60	Typed memo	Volatility Data

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010042	A.L. Galloway	R.A. Remerscheid	J.A. Borrer G.F. Ham E.L. Chandler L.G. Utter H.S. Weiner	3/4/60	Typed memo	PG Granules
00010179	A. Casatelli C. Feinberg	L.G. Utter	J. Burton	8/1/57	Typed memo	Possible New Amine Formulations
00010302- 00010304	F.G. Steward			7/69	Typed memo & attached chart	Operating Comments Plant Technical
00010629	P.L. Orwick	H.C. Staton	L.E. Limpel A.F. Marks B.L. Sogor J.T. Waddington Central Files	10/9/78	Typed memo	Assay of 2,4-D
00010632- 00010633	G. Claudio	F.R. Kennedy	H.H. Harris J.A. Ignatoski A.F. Marks G.D. Munger	11/20/73	Typed memo	Amine 2D/2T
00010634	A.F. Marks	H.H. Harris	F.R. Kennedy G.D. Munger	11/20/73	Typed memo	Amine 2D/2T Confiden- tial Statement

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010646	A.F. Marks	F.R. Kennedy	G. Claudio G.D. Munger J.B. McCabe	10/18/72	Typed memo	Amine 2D/2T State of Pennsylvania Bid
00010681	R.L. Urbanowski	E.L. Chandler	J.S. Cort, Jr. R.A. Guidi F.R. Kennedy J.O. King R.A. Remerscheid B.A. Sprayberry M.F. Wilkerson	12/28/65	Typed memo	Dacamine Labels
00010728	R.J. Marrese	R. Davis	P.H. Schuldt D.M. Warburton J.O. King	12/18/62	Typed memo	Dacamines and Potential Patentability
0010737	A.L. Galloway	R. Davis	P.H. Schuldt D.M. Warburton	10/10/62	Typed memo	Dacamines-Dacamine Patentability
0010790- 0010791	P.H. Schuldt	L.G. Utter	E.L. Chandler	1/13/61	Typed memo & attached table	Relative Volatility of 2,4-D and 2,4,5-T Esters

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010793- 00010795						Duplicate of #00005079-00005081
00010805	L.P. Scoville	R.P. Mueller	C.C. Brumbaugh T.F. Holder W.R. Taylor J.A. Wilson	8/5/60	Typed memo	Proposed License Agreement for Amines
00010808	E.L. Chandler	L.P. Scoville		8/4/60	Typed memo	License Agreement for Amines
00010810- 00010821	R.P. Mueller	C.C. Brumbaugh T.F. Holder L.P. Scoville W.R. Taylor J.A. Wilson		8/3/60	Typed memo & attached agreement form	Proposed License Agreement for Amines
00010853- 00010854	L.G. Utter	J.E. McCalob	T.F. Holder E.L. Chandler E.G. Osborne	12/17/59	Typed letter	2,4-D and 2,4,5-T

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010861	J.H. Dereich	D.M. Warburton	T.F. Holder	10/27/58	Typed memo	Amine Esters and Salt of 2,4-D
00010910	A.L. Galloway	J. Burton	D.J. Porter L.G. Utter	5/26/58	Typed memo	Experimental Herbi- cide Formulations
00010912- 00010913	A.L. Galloway	D.J. Porter	J. Burton C. Feinberg J.O. King L.J. Polite, Jr. L.G. Utter	5/9/58	Typed memo	Herbicide Conference in Newark
00010915- 00010917	A.L. Galloway			4/29/58	Typed memo (3 copies)	Volatility Screening Tests
00010931	G.F. Ham	L.J. Polite, Jr.	J. Burton G. Feinberg A.L. Galloway D.J. Porter M.J. Skeeters R.C. Sutter L.G. Utter D.M. Warburton	2/14/58	Typed memo	Oil-Soluble Amine Salts of 2,4-D and 2,4,5-T

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010946	J. Burton	Mr. Warburton	C. Feinberg L.J. Polite D.J. Porter M.J. Skeeters R.C. Sutter	2/3/58	Typed memo	Oil Soluble Amine Salts of 2,4-D and 2,4,5-T
00010947- 00010948	A.G. Casatelli	D.J. Warburton	J. Burton C. Feinberg L.J. Polite D.J. Porter R.C. Sutter	2/3/58	Typed memo	Oil Soluble Amine Salts of 2,4-D & 2,4,5-T Acids
00010971					Typed report	Black Leaf Research & Development Progress Report No. 3 11/1/57 - 11/30/57
00010974	D.J. Porter	J. Burton	A.L. Galloway L.G. Utter	10/16/57	Typed memo	Amine Salts

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00011147- 00011149	G.H. Burris	J. Burton	J.J. Lukes D.J. Porter M. Rosenfeld J.R. Trocki Lab File CF File	6/15/55	Typed memo	Formulation of Amine Salt Concentrate
00011150- 00011152	G.H. Burris	J. Burton	A. Floresta J.J. Lukes D.J. Porter J.R. Trocki Lab File CF File	6/15/55	Typed memo	Preparation of Amine Salt Concentrate of 2,4,5-T Acid
00011816- 00011820	R.L. Urbanowski	L.S. Weiner	J.S. Cort V.C. Cayton	1/20/65	Typed memo	Diamond Pesticide Granules
00011821	R.L. Urbanowski	E.L. Chandler	V.C. Cayton J.O. King	12/16/64	Typed memo	Dacthal, 2,4-D

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00012790- 00012802	C.L. Troph	W.H. Bricker	C. Baldanza R. Guidi J. King J. McCabe	7/25/69	Typed memo with graphs	Phenoxy Herbicides- Purchasing Technicals
00012862- 00012863				8/20/64	Typed notes	Appropriation Re- quest for Dry 2,4-D Facilities at Newark
00012874						Duplicate of #00010931
00012875	L.J. Polite	J.J. Burton	R.J. Orlik D.J. Porter R.C. Sutter C.L. Troph L.G. Utter D.M. Warburton	2/13/58	Typed memo	Oil Soluble Amine Salts
00012876						Duplicate of #00010946
00012877- 00012878						Duplicate of #00010947-00010948

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00013067					Handwritten notes	
00013203	F.R. Kennedy	R.A. Guidi		7/18/67	Typed chart	Yearly Sales by Product-- 1960 through 1967
00013210- 00013211						Duplicate of #00004519-00004520
00013212						Duplicate of #00004563
00013650- 00013655	F.G. Steward			11/4/66	Typed memo (2 copies)	Operating Instruc- tions 2# and 4# Dacamine-D
00013656- 00013670						Duplicates of #00013650-00013655

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00013722- 00013724						Duplicate of #00013656-00013658
00013732- 00013734	F.G. Steward			12/17/65	Typed memo	Preliminary Operating Instructions 2# and 4# Dacamine-D
00013965	A. Casatelli			9/15/58	Handwritten graph	Tech Iso-T and Solvent Re-melt Temperatures
00014001- 00014002						Duplicate of #00004519-00004520
00014003						Duplicate of #00004563
00014359- 00014362					Typed memo	Newark Product Control Test Procedures-Dacamines
00014363- 00014366						Duplicate of #00014359-00014362

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014464					Typed memo	Alcohols (Section IV)
0014489						Duplicate of #00014464
0014490						Duplicate of #00014464
0014626					Blank form (typed)	Amine Batch Record (attached to #00014621-00014622)
0014678- 0014680	C.L. Troph	M.C. Heisele		11/15/72	Typed memo	2,4-D Process
0014814	R.A. Guidi	R.J. Marrese	P.H. Schuldt J.O. King	10/9/62	Typed memo	Dacamine Formulations - Patent Rights
0014815	Supplier of Amine Sample	Ray Guidi	(bcc) J.O. King	8/10/62	Typed letter	Sample of Amine for Dacamines
0014816	R.A. Guidi	RFL MR			Handwritten note	Re: Attached Correspondence (#00014817-00014823) and 10/9/62 Meeting

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014817	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	10/5/62	Typed memo	Attached Correspondence Re: Patent Rights in Dacamine D & T Formulations
00014818	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines
00014819	Roy Davis	R.J. Marrese	P.H. Schuldt D.M. Warburton	10/4/62	Typed memo	Dacamines
00014820	R.J. Marrese	Roy Davis	D.M. Warburton P.H. Schuldt	10/3/62	Typed memo	Patent Position With the Dacamines
00014821	R.J. Marrese	D.M. Warburton	Dr. Paul Schuldt J.O. King	10/2/62	Typed memo	Cover to Attached Report (#00014822-00014823)
00014822- 00014823	R.J. Marrese	FILE	E.L. Chandler J.O. King	9/28/62	Typed memo	Mtg. at Research to Discuss DACAMINE Chemistry (9/25/62)

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014824- 00014826	Roy Davis	C.L. Troph	W.H. Bricker J.O. King G.L. Pratt	6/2/69	Typed memo	Licenses for Amines
00014827	GLP	Mike				Routing Slip
00014828	R. Chonoles	Supplier of Amines	R.A. Guidi F.G. Steward	4/15/69	Typed memo	Amine for Dacamines
00014829	C.L. Troph	Roy Davis	G.L. Pratt	4/16/69	Typed memo	Patents re Amines
00014830	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.A. Ignatowski	10/2/69	Typed memo	Dacamine Repackaging
00014831- 00014838	Supplier of Chemical Products				Printed brochure	Supplier's Products
00014839	Supplier of Amines				Printed ad	Amines
00014840	M. Rosenfeld	F.G. Steward	F.R. Kennedy G.L. Pratt J.P. McCabe	9/17/69	Typed memo	Special Dacamine - 1D/1T

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014841- 00014842	J. Synek	A.L. Galloway	R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King P.H. Schuldt	3/13/69	Typed memo & attached cost comparison	Dacamine 4D
00014843	F.G. Steward	G.L. Pratt	R. Chonoles M. Rosenfeld	3/14/69	Typed memo	Amine for Dacamines
00014844	G.L. Pratt	Supplier of Amines	(bcc) R.A. Guidi R. Chonoles	4/7/69	Typed letter	Lab Evaluation of Amines
00014845	G.L. Pratt	R. Chonoles	R.A. Guidi	4/3/69	Typed memo	DACAMINE Report, F.G. Steward to G.L. Pratt, Dated 3/3/69
00014846					Handwritten figures	
00014847					Handwritten calculations	Break-Even Point
00014848- 00014849				1968	Typed summary	Summary of All 1968 Dacamine 4D Complaints
00014850- 00014863					Typed summary	Complaints & Remarks Re: Dacamine &

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014864				10/8/69	Typed tentative specification	DACAMINE Emulsifiable Concentrate
00014865						Duplicate of #00014864
00014866- 00014867						Duplicate of #00003251-00003252
00014868- 00014871						Duplicate of #00003253-00003256
00014872- 00014873						Duplicate of #00003251-00003252
00014874- 00014877						Duplicate of #00003253-00003256
00014878	Al DiDario	R.L. Urbanowski	E.L. Chandler W.A. Cunningham E.G. Osborne	7/6/68	Typed memo	Field Testing of DACAMINE Formulations
00014879	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	4/3/68	Typed memo	Dacamine Field Testing

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014880	F.G. Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed memo	Amine for Dacamines
00014881	F. Gordon Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed letter	Evaluation of Amine for Dacamines
00014882						Duplicate of #00004655
00014883	F.G. Steward	R.L. Urbanowski	F.R. Kennedy A. DiDario M. Rosenfeld	4/26/68	Typed memo	Dacamines for Field Testing
00014884	Joseph Synek	G.L. Pratt	R. Chonoles A.L. Galloway R.A. Guidi M. Hochberg H.C. Klein M. Rosenfeld P.H. Schuldt	1/14/69	Typed memo	Dacamine Improvement Program
00014885	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines
00014886- 00014887	Supplier of Amines	Geoffrey Pratt	Lou Henson	1/17/69	Typed letter	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014888- 00014898	E.A. Wainio	G.L. Pratt	M. Rosenfeld J.O. King R.A. Guidi	1/22/69	Typed memo & attached chemical abstracts	Literature Search- Proposed New Product
00014899- 00014900	G.L. Pratt	FILE	M. Hochberg R. Chonoles F.G. Steward J. Synek J.A. Ignatowski L.L. Henson	1/29/69	Typed memo	Visit by Representa- tive of Amine Supplier
00014901- 00014906	G.L. Pratt	J.C. Kelly	R.A. Guidi R.L. Urbanowski Cleveland File Concord File	11/29/66	Typed memo & attached telex, DACAMINE label, salt content	DACAMINE 2D/2T for Greece
00014907- 00014932	Supplier of Amines	G.L. Pratt			Typed letter & attachments	New Price Schedule for Amines
00014933- 00014934	J.A. Ignatoski	E.L. Chandler	G.L. Pratt R.L. Urbanowski	10/10/68	Typed memo	DACAMINE Formulations
00014935	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	DACAMINE Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014936	F.R. Kennedy	E.L. Chandler	R.A. Guidi H.O. Scott R.A. Remerscheid	11/28/67	Typed memo	DACAMINE Labels
00014937	E.L. Chandler	F.R. Kennedy	R.A. Guidi H.O. Scott R.A. Remerscheid G.L. Pratt	12/1/67	Typed memo	DACAMINE Labels
00014938	G.L. Pratt	F.G. Steward	R.A. Guidi R.L. Urbanowski J.O. King E.L. Chandler F.R. Kennedy	11/27/67	Typed memo	Specification for DACAMINE
00014939					Business card	Name of Representa- tive of Amine Supplier
00014940	G.L. Pratt	F.G. Steward	M. Hochberg R.A. Guidi H.C. Klein R. Chonoles M. Rosenfeld J. Synek P.H. Schuldt	1/13/69	Typed memo	DACAMINE Improvement Program
00014941- 00014943	J. Synek	P.H. Schuldt		1/2/69	Typed memo	Dacamine 4D Emulsifiable Concentrate

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014944- 00014950	A.L. Galloway			1/2/69	Typed memo	Confidential Specs
00014951- 00014955	G.L. Pratt	C.T. Baldanza E.L. Chandler J.W. Daniel R.L. Dezember P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King T.J. Neidlinger P.H. Schuldt C.L. Troph R.L. Urbanowski M.F. Wilkerson		12/11/68	Typed memo	DACAMINE REVIEW Research & Technical Service Meeting 12/12/68
00014956- 00014959	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi G.L. Pratt	12/6/68	Typed memo	Dacamine History
00014960					Handwrittwn calculations	1969 Sales Forecast
00014961	G.L. Pratt	H.C. Klein	M. Hochberg M.F. Wilkerson R.A. Guidi R. Chonoles	12/9/68	Typed memo	DACAMINE Profitability

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014962	J.C. Kelly	R.A. Remerscheid	H.A. Branson J.O. King R.A. Remerscheid	11/12/68	Typed memo	Dacamine Products in Warehouse
00014963	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatowski G.L. Pratt	9/30/68	Typed memo	Dacamine-2D
00014964	R.R. Irani	J.L. Fordham		11/7/68	Typed memo	Dacthal and New Products
00014965	J.O. King	G.L. Pratt		12/9/68	Typed memo	Proposed New 2,4-D Product
00014966						Duplicate of #00001747
00014967	G.L. Pratt	Betty Waines	Rosenfeld J.O. King R.A. Guidi	12/27/68	Typed memo	Literature Search re Proposed New Product
00014968					Handwritten notes	Amine for Dacamines
00014969- 00014970	R.A. Guidi	M.F. Wilkerson	J.O. King J.C. Kelly F.R. Kennedy	2/24/66	Typed memo	Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014971	P.N. Lutz	John M. Sanders	C.L. Dunning R.L. Urbanowski	6/22/66	Typed memo	Quality Control on Dacamine
00014972- 00014973						Duplicate of #00014933-00014934
00014974- 00014981	R. Chonoles	H.C. Klein	R.A. Guidi G.L. Pratt F.G. Steward	11/8/68	Typed memo & attachments	4# Dacamine-D
00014982- 00014983	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	5/24/66	Typed memo	Off-Grade Dacamines
00014984	R. Chonoles	H.C. Klein	R.A. Guidi F.R. Kennedy	12/9/68	Typed memo	Dacamine
00014985- 00014987	G.L. Pratt	R.A. Guidi	M. Hochberg R.L. Urbanowski C.L. Troph J.O. King E.L. Chandler M.F. Wilkerson J.A. Ignatoski R. Chonoles M. Rosenfeld F.G. Steward S. Greenbaum H. Klein F.R. Kennedy	11/26/68	Typed memo	Newark Plant, Harrison Plant Visit Nov. 6 & 7, 1968, re Dacamine and Other Products

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014988- 00014990					Handwritten notes	Label Revisions Dacamine & Dacamine 4D
00014991	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	1/17/69	Typed memo	Dacamine Samples for Field Tests
00014992	J.A. Ignatowski	J.O. King	E.L. Chandler R.A. Guidi R.A. Urbanowski G.L. Pratt	8/21/68	Typed memo	Dacamine 4D Formulation
00014993						Duplicate of #00000154
00014994	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatoski G.L. Pratt	8/27/69	Typed memo	Dacamine Repackaging
00014995	Supplier of Amines			9/17/69	Typed price list	Prices of Amines
00014996	Supplier of Amines				Printed ad	Amines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014998	R. Chonoles	H.C. Klein	R.A. Guidi F.G. Steward	4/17/69	Typed memo	Amine for Dacamines
00014999						Duplicate of #00014828
00015000	R. Chonoles	R.A. Guidi		3/27/69	Typed memo	Amine for Dacamines
00015001	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	4/7/69	Typed memo	Amine for Dacamines
00015002	Gordon	Bob		4/14/69	Handwritten memo	Dacamine Patent
00015003	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015004- 00015005	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015006- 00015009	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015010						Duplicate of #00014840
00015011						Duplicate of #00014994
00015012	J.A. Ignatoski	Milt Rosenfeld	H.A. Branson T.L. Curry R.J. Orlik	7/24/69	Typed memo	Dacamine Repackaging
00015013	J.A. Ignatoski	H.A. Branson	T.L. Curry R.J. Orlik	7/7/69	Typed memo	Dacamine Repackaging

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015014	T.L. Curry	R.L. Urbanowski	E.L. Chandler H.A. Branson R.J. Orlik	1/3/69	Typed memo	Dacamine Strength
00015015	H.A. Branson	T.L. Curry	R.J. Orlik R.L. Dezimmer	5/9/69	Typed memo	Dacamine Strength
00015016	T.L. Curry	H.A. Branson		6/13/69	Typed memo	Dacamine Requirements
00015017	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Rosenfeld	7/16/69	Typed memo	Dacamine & Dacamine 4-D Formulations
00015018- 00015019						Duplicate of #00014933-00014934
00015020	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	Dacamine Formulations
00015021- 00015023	M.R.			1/69	Handwritten figures	Specs of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015024	Gordon	Bob	Mr. Rosenfeld	7/8/69	Handwritten memo	Dacamines
00015025						Duplicate of #00015000
00015026						Duplicate of #00014885
00015027	R. Chonoles	R.A. Guidi		3/20/69	Typed memo	Substandard Dacamine
00015028						Duplicate of #00000762
00015029						Duplicate of #00000763
00015030- 00015031						Duplicate of #00000764-00000765
00015032- 00015035						Duplicate of #00004621-00004624

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015036	R. Chonoles	R.A. Guidi		3/3/69	Typed memo	Dacamine Improvement Program
00015037- 00015041	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Hochberg J.A. Ignatoski M. Rosenfeld G. Salvatto P.H. Schuldt J. Synek C.L. Troph	3/3/69	Typed memo	Dacamine Improvement Program
00015042						Duplicate of #00014845
00015043- 00015044	G.M. Salvatto	F.G. Steward	R. Chonoles G.L. Pratt M. Rosenfeld	3/3/69	Typed memo	Dacamine Quality
00015045- 00015047						Duplicate of #00015612-00015615 (p. 3 of 4-page memo missing)
00015048						Duplicate of #00004620
00015049						Duplicate of #00000767

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015050						Duplicate of #00014991
00015051- 00015056	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	1/9/69	Handwritten memo	D-Acid Bars
00015058- 00015061						Duplicate of #00014956-00014959
00015062	Gordon	Bob		12/20/66	Handwritten memo	Dacamine Bars
00015063	Gordon	G.L. Pratt	R. Chonoles M. Rosenfeld	12/16/68	Handwritten memo	Amine for Dacamine
00015064						Duplicate of #00014961
00015065						Duplicate of #00014984
00015066	Milton Rosenfeld	Supplier of Solvent	R. Chonoles F.G. Steward	11/26/68	Typed letter	Request for Specs on Solvent
00015067- 00015069						Duplicate of #00014985-00014987

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015070	F.G. Steward	G.L. Pratt	R. Chonoles	11/8/68	Typed memo	Dacamine Complaint
00015071- 00015073						Duplicate of #00014974-00014976
00015074	G.L. Pratt			6/13/67	Typed specs	DACAMINE 4D
00015075- 00015076	T.J. Neidlinger	All Tech Service Reps All Regional Sales Managers All Salesmen R.L. Urbanowski Gordon Steward Milt Rosenfeld Robert Chonoles J.O. King		10/25/68	Typed memo	Dacamine Bar Research Program
00015077	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	10/22/68	Typed memo	Dacamine Complaint
00015078	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	10/7/68	Typed memo	Dacamine Samples
00015079						Duplicate of #00014963

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015080- 00015082	F. Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Preparing Dacamine
00015083- 00015084	Frank Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Wet Dacamine 4D
00015085	R.L. Urbanowski	F.G. Steward	R.A. Guidi T.J. Neidlinger R. Chonoles	9/25/68	Typed memo	Dacamine Bars
00015086						Duplicate of #00000780
00015087	Gordon	Bob		9/19/68	Handwritten memo	Dacamine Raw Materials for Mexico
00015088						Duplicate of #00000781
00015089						Duplicate of #00004635

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015090						Duplicate of #00004631
00015091						Duplicate of #00007641
00015092	Illegible	Gene			Handwritten memo	'68 Requirements
00015093	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy J.C. Kelly	6/25/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015094	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	6/21/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015095						Duplicate of #00004642
00015096	Gordon	Mike		5/29/68	Handwritten memo	Amine for Dacamines
00015097						Duplicate of #00014883

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015098						Duplicate of #00004646
00015099- 00015100	Gordon	Mike		4/18/68	Handwritten memo	Dacamine Samples For Field Tests
00015101						Duplicate of #00014883
00015102						Duplicate of #00014879
00015103						Duplicate of #00014881
00015104						Duplicate of #00014880
00015105						Duplicate of #00014880
00015106						Duplicate of #00014879

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015107	M. Rosenfeld	R. Leibling	F.R. Kennedy F.G. Steward	4/1/68	Typed memo	Emulsifier for Dacamines
00015108- 00015109	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/12/67	Typed memo	Amines for Dacamines
00015110	R.A. Guidi	F.R. Kennedy		10/20/67	Typed memo	Emulsifier for Dacamines
00015111- 00015112						Duplicate of #00001748-00001749
00015113	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	2/5/68	Handwritten memo	Amine/Acid Ratio for Dacamine
00015114	Milt Rosenfeld	F. Gordon Steward	F.R. Kennedy	1/16/68	Handwritten memo	Dacamine
00015115	Leo M. Heath			1/16/67	Handwritten lab analysis	Dacamine 2-D Prep. By M.R.
00015116						Duplicate of #00014937
00015117						Duplicate of #00015113

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015118						Duplicate of #00015114
00015119						Duplicate of #00015115
00015120						Duplicate of #00014937
00015121	R.L. Urbanowski	F.G. Steward	R.A. Guidi J.O. King T.J. Neidlinger F.R. Kennedy	3/21/68	Typed memo	Dacamine Bars
00015122	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy J.O. King	3/13/68	Typed memo	Dacamine Formulations & 2,4-D Acid Requirements
00015123- 00015124	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi	2/27/68	Typed memo & attached figures	Des Moines Require- ments - Dacamine & Dacamine 4D
00015125	R.A. Guidi	F.E. Woodward	E.L. Chandler C.H. Lighthipe H.A. Batley H.E. Everson F.R. Kennedy J.S. Cort, Jr.	3/8/68	Typed memo	Dacamine Formulations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015126	F.E. Woodward	E.L. Chandler	C.H. Lighthipe J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/4/68	Typed memo	Dacamine Formulations
00015127	F.R. Kennedy	R.A. Guidi		3/1/68	Typed memo	Field Testing-Dacamines
00015128	Gordon	Mike		2/29/68	Handwritten memo	Field Testing of Dacamines
00015129	Mike	FGS		2/26/68	Handwritten memo	Dacamine Field Testing
00015130	E.L. Chandler	C.H. Lighthipe		2/21/68	Typed memo	Dacamine Formulations
00015131	J.S. Cort, Jr.	C.H. Lighthipe	H.E. Everson E.L. Chandler F.R. Kennedy	2/13/68	Typed memo	Dacamine Formulations
00015132	Supplier of Emulsifier	Michael Kennedy	Eugene Bak	2/6/68	Typed letter	Emulsifier for Dacamine
00015133	Gordon	F.R. Kennedy	M. Rosenfeld	2/2/68	Handwritten memo	Dacamine Bars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015134	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	1/17/68	Typed memo	Dacamine Bars
00015135						Duplicate of #00004648
00015137	F. Gordon Steward	M. Rosenfeld	F.R. Kennedy	12/20/67	Handwritten memo	Dacamine Compatibility with Diesel Fuel
00015138					Typed note	Cover to #s 00015139-00015141
00015139- 00015141				3/27/67	Typed notes	Excerpts From Lab Notebook re Dacamine Bars
00015142	F.R. Kennedy	R.A. Guidi		12/8/67	Typed memo	Dacamine Moisture Specification
00015143	F.R. Kennedy	F.G. Steward		12/1/67	Typed memo	Dacamine Bars

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015144						Duplicate of #00014938
00015145- 00015146	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	10/20/67	Handwritten memo	Dacamine-2D Amine/Acid Ratio
00015147	F.R. Kennedy	R.A. Remerscheid		11/14/67	Typed memo	IR Analysis of Dacamine
00015148	F.R. Kennedy	R.A. Guidi		11/10/67	Typed memo	Dacamine Bars
00015149- 00015150	Milt Rosenfeld	Dr. B. Sprayberry		4/5/67	Handwritten memo	Dacamine Bars
00015151- 00015154	R.A. Guidi	M. Rosenfeld		10/18/67	Typed memo & attached patent application	Dacamine Bar
00015155- 00015156	F.G. Steward	G.L. Pratt	F.R. Kennedy R.A. Remerscheid M. Rosenfeld	11/7/67	Typed memo & specifi- cation	Specification for Dacamine
00015157- 00015158						Duplicate of #00015145-00015146

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015159- 0015160	M. Rosenfeld	F. Gordon Steward	F.R. Kennedy	10/12/67	Typed memo	New Dacamine Formulation
0015161	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	9/13/67	Typed memo	Special Dacamine Formulation
0015162- 0015163	M.C. Heisele	F.R. Kennedy	R.A. Guidi R.A. Remerscheid E. Bak F.G. Steward	8/31/67	Typed memo	4# Dacamine-D
0015164	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	8/21/67	Typed memo	Special Dacamine- 4T Mixture
0015165	R.A. Guidi	F.R. Kennedy		7/5/67	Typed memo	Amines For Dacamine
0015166	F.G. Steward	L.L. Henson	F.R. Kennedy	5/22/67	Typed memo	Raw Material For Dacamines
0015167	R.A. Remerscheid	F.R. Kennedy		3/1/67	Typed memo	Dacamine Shipments
0015168	J.C. Kelly	F.R. Kennedy	R.A. Guidi J.O. King	2/28/67	Typed memo	Dacamine-D Shipments to Des Moines
0015169	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/24/67	Typed memo	Dacamine-D Shipments to Des Moines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015170	F.R. Kennedy	R.A. Remerscheid		2/21/67	Typed memo	Dacamine Tank Car Shipments
0015171	F.R. Kennedy	R.A. Guidi		2/17/67	Typed memo	1.4# Dacamine
0015172	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/14/67	Typed memo	1.4# Dacamine-D
0015173	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	2/9/67	Typed memo	Cold Temperature Stability of Dacamines Shipped to Des Moines
0015174	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	2/2/67	Typed memo	Dacamine Compatibi- lity with Fertilizer
0015175	R.A. Guidi	W.H. Pierson	F.R. Kennedy R.A. Remerscheid J.O. King B.A. Sprayberry	10/24/66	Typed memo	Dacamine 4D with Fertilizer
0015176	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/31/67	Typed memo	Changes in Dacamine Formulations
0015177	F.G. Steward	F.R. Kennedy	R.A. Guidi E. Bak M. Rosenfeld	1/25/67	Typed memo	Emulsifiers For Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015178	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy	1/25/67	Typed memo	Emulsifiers For Dacamines
00015179	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	1/25/67	Typed memo	Dacamines From Monsanto Acid
00015180	F.R. Kennedy	R.A. Guidi		1/16/67	Typed memo	Dacamine Samples
00015181	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/9/67	Typed memo	Changes in Dacamine Formulations
00015182	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	1/5/67	Typed memo	Dacamines
00015184	F.G. Steward	L.L. Henson	F.R. Kennedy R.A. Guidi A.T. Hohnhold M. Rosenfeld	12/28/66	Typed memo	Raw Materials For Dacamines
00015185	Gordon	Mike		11/29/66	Handwritten memo	Solvents for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015186- 00015188	B.A. Sprayberry	F.R. Kennedy	M.F. Wilkerson R.A. Guidi E.L. Chandler Milt Rosenfeld	11/23/66	Typed memo	Solvents For Dacamines
00015189- 00015192	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	11/29/66	Typed memo	Dacamines
00015193	F.G. Steward	A.T. Hohnhold	F.R. Kennedy R.A. Guidi L.L. Henson M. Rosenfeld	11/29/66	Typed memo	Amine For Dacamines
00015194- 00015195	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/29/66	Typed memo	Changes in Dacamine Formulations
00015196	F.G. Steward	F.R. Kennedy	M. Rosenfeld	11/14/66	Typed memo	Amines For Dacamines
00015197	R.A. Guidi	F.R. Kennedy				Routing Slip to #00015198-00015199
00015198- 00015199	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi M.F. Wilkerson	11/2/66	Typed memo	Dacamine Distribution Costs

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015200	F.R. Kennedy	R.A. Guidi	B.A. Sprayberry	10/31/66	Typed memo	Amines for Dacamines
00015201	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/26/66	Typed memo	Dacamine Fertilizer Mixture
00015202	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	10/24/66	Typed memo	Dacamine Quality Control
00015203	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	10/13/66	Typed memo	Dacamine - Fertilizer Mixes
00015204	B.A. Sprayberry	F.R. Kennedy	R.A. Guidi T.L. Chandler	10/4/66	Typed memo	Dacamine/Silvex
00015205	B.A. Sprayberry	R.A. Remerscheid	F.R. Kennedy R.A. Guidi H.A. Branson E.L. Chandler J.O. King	9/30/66	Typed memo	Dacamine Fertilizer Mixture
00015206	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	9/27/66	Typed memo	Dacamine - Fertilizer Mixes
00015207	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy J.O. King	9/19/66	Typed memo	Dacamine - Fertilizer Mixes

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015208	H.A. Branson	R.A. Remerscheid	J.O. King	9/12/66	Typed memo	Dacamine-Fertilizer Mixes
00015209	Indiana State Chemist, Dept. of Biochemistry, Agricultural Experiment Station, Lafayette, Ind.			9/9/66	Typed form	Herbicide Inspection Report for Dacamine
00015210	R.A. Remerscheid	F.R. Kennedy				Routing Slip
00015211- 00015212				9/7/66	Typed forms	Ester Formulation (of 4# Dacamine)
00015213	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	9/9/66	Typed memo	Dacamine-Fertilizer Mixes
00015214	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy	8/19/66	Typed memo	DACAMINE With Fertilizer
00015215	F.R. Kennedy	L.L. Henson		9/2/66	Typed memo	Solvent
00015216	F.R. Kennedy	R.A. Guidi		9/2/66	Typed memo	Glass Slides of Dacamine Formulation Shipment - 1961

8959

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015217	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy	9/2/66	Typed memo	Dacamine-Fertilizer Mixes
0015218	L.L. Henson	F.R. Kennedy		8/31/66	Typed memo	Solvent for Dacamines
0015219	F.R. Kennedy	R.A. Guidi		8/31/66	Typed memo	Quality Control For Dacamine Formulations
0015220- 0015221	B.A. Sprayberry	R.A. Guidi	R.A. Remerscheid F.R. Kennedy J.O. King E.L. Chandler	7/29/66	Typed memo	Quality Control For Dacamine Formulations
0015222	R.A. Guidi	F.R. Kennedy R.A. Remerscheid		8/19/66	Typed memo	Quality Control For Dacamine Formulations
0015223	Supplier of Amine	F. Gordon Steward		8/17/66	Typed letter	Amine for Dacamines
0015224	F.G. Steward	F.R. Kennedy	M. Rosenfeld	8/17/66	Typed memo	Dacamine Formulation
0015225	F.G. Steward	B.A. Sprayberry	F.R. Kennedy	7/21/66	Typed memo	Amine for Dacamines

8960

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015226- 00015227	Gordon	Mike		6/4/66	Handwritten memo	Amine For Dacamines
00015228	F.G. Steward	F.R. Kennedy	M. Rosenfeld	5/27/66	Typed memo	Emulsifier for Dacamines
00015229	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/27/66	Typed memo	Emulsifier for Dacamines
00015230						Duplicate of #00015228
00015231- 00015232						Duplicate of #00014982-00014983
00015233- 00015234	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/24/66	Typed memo	Emulsifiers for Dacamines
00015235	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/23/66	Typed memo	Amine for Dacamines
00015236	R.A. Remerscheid	T.J. Neidlinger	E.L. Chandler J.O. King H.A. Branson W.H. Pierson R.A. Guidi B.A. Sprayberry F.R. Kennedy M. Rosenfeld	5/20/66	Typed memo	Dacamine Complaint

8961

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
015237- 015240	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	J.L. Hoblit J.R. Trocki	5/18/66	Typed memo & attached Helpful Hints #24 & #34	Dacamine in Fertilizer Solutions and Proper Technique For Mixing a Dacamine Spray
015241	F.G. Steward	B. Krienke	F.R. Kennedy	3/25/66	Typed memo	Analysis of Dacamine-4T
015242	F.G. Steward	F.R. Kennedy	E. Bak	3/23/66	Typed memo	Dacamine Production - 1966
015243	F.R. Kennedy	R.A. Guidi		3/18/66	Typed memo	Amines for Dacamine
015244	J.C. Kelly	Gene Bak	F.R. Kennedy R.A. Guidi J.O. King	3/18/66	Typed memo	Dacamine Formulations
015245						Duplicate of #00015243
015246- 015249	M. Rosenfeld	F.G. Steward	F.R. Kennedy	3/4/66	Typed memo	Amines for Dacamines
015250	F.R. Kennedy	J.O. King	R.A. Guidi	3/11/66	Typed memo	Dacamine Formulations

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015251	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy	3/11/66	Typed memo	2,4-D Dry Acid Requirements
00015252	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	3/9/66	Typed memo	Dacamine and Dacamine 4D Formulation
00015253	Gordon	Mike		3/8/66	Handwritten memo	Solvent
00015254- 00015255	Mike	Gordon		3/8/66	Handwritten memo (2 copies)	Solvent Sample
00015256	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	1/27/66	Typed memo	Solvent
00015257	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	1/31/66	Typed memo	Solvent for Dacamines
00015258	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Solvent for Dacamines
00015259- 00015260	B.A. Sprayberry	Supplier of Solvent	M.F. Wilkerson R.A. Guidi R.A. Remerscheid	2/22/66	Typed letter & attached specs	Solvent Sample

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015261- 00015262	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Dacamine and Dacamine 4D Formulation
00015263					Typed chart	Dacamine Sample Treatments
00015264- 00015265	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	3/2/66	Typed memo & attached recap sheet	Dacamine and Dacamine 4D Formulation
00015266	R.A. Guidi	J.O. King	F.R. Kennedy R.A. Remerscheid B.A. Sprayberry	2/25/66	Typed memo	Dacamine Emulsifiers
00015267	J.O. King	R.A. Guidi	R.A. Remerscheid B.A. Sprayberry F.R. Kennedy	2/23/66	Typed memo	Dacamine Emulsifiers
00015268	M. Rosenfeld	F.G. Steward	F.R. Kennedy	2/24/66	Typed memo	Dacamine Formulations
00015269	R.A. Guidi	F.R. Kennedy			Typed note	Jobs
00015270- 00015271						Duplicate of #00014969-00014970

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015272	F.G. Steward	F.R. Kennedy	M. Rosenfeld	2/24/66	Typed memo	Dacamine Formulation
00015273	Mike	Gordon		2/21/66	Handwritten note	Clearing of Sample
00015274	Gordon	Mike		2/22/66	Handwritten memo	Clearing of Sample
00015275	F.R. Kennedy	R.A. Guidi	F.G. Steward M. Rosenfeld	2/23/66	Typed memo	Dacamine Formulation
00015276	J.C. Kelly	J.O. King	F.R. Kennedy R.A. Guidi M.F. Wilkerson	2/18/66	Typed memo.	Dacamine
00015277	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	1/26/66	Typed memo	Storing of Amines
00015278					Typed form	Purchase Requisition
00015279- 00015280	M. Rosenfeld	E. Bak	F.R. Kennedy	1/14/66	Typed memo & attached specs	Solvents

8965

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015281	L.M. Heath			1/7/66	Handwritten lab analysis	Des Moines 2# Dacamine
00015282	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	1/3/66	Typed memo	Storing of Amines
00015283- 00015284				2/28/66	Handwritten charts	Dacamines: Raw Materials, Containers & Labels
00015286	F.R. Kennedy	R.A. Guidi	J.S. Cort, Jr. J.O. King	12/30/65	Typed memo	Dacamine Formulations
00015287- 00015291	M. Rosenfeld	E. Bak		12/27/65	Typed memo	Dacamines - Report on Experiments Run re Formulation
00015292- 00015294						Duplicate of #00013732-00013734

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015295	F.G.S.			12/20/65	Blank typed form	Dacamine Batch Sheet
00015296	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	12/16/65	Typed memo	Assays of Dacamines
00015297	F.R. Kennedy	R.A. Remerscheid	R.A. Guidi	12/9/65	Typed memo	Dacamine Formulations
00015298- 00015300	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/19/65	Typed memo	Dacamine Formulations
00015301	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	11/15/65	Typed memo	4# Dacamine-D Formulation
00015302	F.R. Kennedy	R.A. Guidi		11/9/65	Typed memo	Dacamine Labeling
00015303	Mike			11/7/65	Handwritten memo	Shipment of Dacamine 4D in Early 1966
00015304					Handwritten figures	Dacamine Production Requirements

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015305	J.C. Kelly	F.R. Kennedy	W.J. Byrne	10/28/65	Typed memo	Dacamine Formulations
00015306	M. Rosenfeld	E. Bak	F.R. Kennedy	9/22/65	Typed memo	Emulsifier for Dacamines
00015307	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	9/16/65	Typed memo	Dacamine Formulation
00015308	Supplier of Solvent	Solvent Distributor		9/10/65	Typed letter	Solvent for Dacamines
00015309	J.W. Daniel	F.R. Kennedy	J.S. Cort	7/21/65	Typed memo	Labels
00015310- 00015311	S.S. Szabo Boyce Thompson Instit. For Plant Research, Inc. Diamond Alkali Fellowship	Dr. Schuldt Mr. Sprayberry Mr. Kennedy Dr. Chandler Mr. King Mr. Cort Mr. Davis Dr. R.L. Schauer Dr. Limpel		8/26/65	Typed memo	Volatility Test On Dacamine
00015312	W.A. Goodloe	E. Bak		6/30/65	Typed memo	Dacamine Formulations
00015313	J.S. Cort, Jr.	All Ag Chem Division Personnel		6/28/65	Typed memo	Heritage House

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015314	F.R. Kennedy	J.S. Cort, Jr.		6/21/65	Typed memo	Dacamine Formulation- Heritage House
00015315	R.L. Dezember	J.O. King	F.R. King	6/15/65	Typed memo	Dacamine Formulation- Heritage House
00015316- 00015317	M. Rosenfeld	E. Bak	F.R. Kennedy	6/17/65	Typed memo	Dacamine - D/T Concentrate Formulation
00015318	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly R.A. Remerscheid	5/28/65	Typed memo	Dacamine Inventory at Newark
00015319	J.O. King	J.S. Cort, Jr.	F.R. Kennedy R.A. Remerscheid J.C. Kelly	5/27/65	Typed memo	Dacamine Inventory at Newark
00015320	F.R. Kennedy	J.S. Cort, Jr.		5/3/65	Typed memo	Packaged Inventory of Dacamine Formulations
00015320A	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	4/28/65	Typed memo	Packaged Inventory of Dacamine Formulations
00015321				4/28/65	Handwritten notes	Dacamine Inventory

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015322	J.S. Cort, Jr.	F.R. Kennedy	J.O. King	4/28/65	Typed memo	Emulsifier for Dacamines
00015323	M. Rosenfeld	E. Bak	F.R. Kennedy B. Sprayberry	4/14/65	Typed memo	Solvents for Dacamine-D
00015324	F.R. Kennedy	J.S. Cort, Jr.		4/9/65	Typed memo	Dacamine Emulsifier
00015325					Handwritten notes & figures	
00015326	Mike	WGH		3/11/65	Handwritten memo	Inventory on Chemicals From Dacamine Production
00015327	J.C. Kelly	All Ag Chem Specialists	F.R. Kennedy R.A. Remerscheid M.F. Wilkerson J.O. King	3/8/65	Typed memo	Dacamine Formulations
00015328	F.R. Kennedy	B.A. Sprayberry		3/4/65	Typed memo	Dacamine Extendability
00015329	B.A. Sprayberry	F.R. Kennedy		2/19/65	Typed memo	Dacamine Extendability

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015330	F.R. Kennedy	J.O. King	J.S. Cort, Jr. J.C. Kelly R.A. Remerscheid	3/4/65	Typed memo	Dacamine Samples
00015331	J.C. Kelly	F.R. Kennedy	J.S. Cort, Jr. J.O. King	3/2/65	Typed memo	Dacamine Samples
00015332	H.P. Woods	J.C. Kelly	F.R. Kennedy J.O. King J. Jacobs R.A. Remerscheid	3/3/65	Typed memo	Dacamine Promotional Program
00015333	B.A. Sprayberry	All Ag Chem Specialists		2/19/65	Typed memo	Non-Volatility of Dacamine
00015334	J.C. Kelly	H.P. Woods	R.A. Remerscheid F.R. Kennedy K.Y. Lyttle J.O. King	2/18/65	Typed memo	Dacamine Promotional Program
00015335	J.C. Kelly	All Ag Chem Specialists	J.O. King M.F. Wilkerson R.A. Remerscheid F.R. Kennedy	2/18/65	Typed memo	DACAMINE - Promotional Program

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015336	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly J.O. King	2/18/65	Typed memo	DACAMINE Production 1965 - Newark
00015337	F.R. Kennedy	B.A. Sprayberry		1/25/65	Typed memo	Dry Dacamine-D Salt
00015338	M. Rosenfeld	E. Bak	F.R. Kennedy	1/21/65	Typed memo	Dry Dacamine-D Salt
00015339	J.S. Cort, Jr.	R.A. Remerscheid	B.A. Sprayberry E.L. Chandler F.R. Kennedy J.O. King M.F. Wilkerson	1/15/65	Typed memo	New Dacamine Formulations
00015340	F.R. Kennedy	J.S. Cort, Jr.		1/7/65	Typed memo	Dacamine Production
00015341- 00015342				1/6/65	Typed memo	Dacamine Formulation
00015343	B.A. Sprayberry	M.F. Kennedy		1/8/65	Typed memo	New Dacamine Formulations
00015344						Duplicate of #00015343

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015345- 00015346A	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld E. Bak R.A. Remerscheid	1/8/65	Typed memo	New Dacamine Formulations
00015347	Wm. Tobin	Mr. Kennedy Mr. Hill		1/7/65	Typed memo	Dacamine Pumping Operations
00015348- 00015349						Duplicate of #00015341-00015342
00015350					Handwritten notes	Dacamine-4D
00015352- 00015353	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld R.A. Remerscheid	12/28/64	Typed memo	Dacamine-4D Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015354	B.A. Sprayberry	R.A. Remerscheid	E.L. Chandler J.S. Cort F.R. Kennedy J.O. King M.F. Wilkerson	12/15/64	Typed memo	Dacamine Assay
00015355	L.D. Metcalfe	B.A. Sprayberry	M.R. McCorkle R.A. Reck W.W. Abramitis F.R. Kennedy R.A. Remerscheid	12/11/64	Typed letter	Dacamine Analysis
00015356	B.A. Sprayberry	E.L. Chandler	R.A. Remerscheid F.R. Kennedy J.O. King	12/10/64	Typed memo	Dacamine Analysis
00015357	B.A. Sprayberry	E.L. Chandler	J.S. Cort J.O. King F.R. Kennedy R.A. Remerscheid	12/10/64	Typed memo	Dacamine Analysis Demonstration
00015358	F.R. Kennedy	J.C. Kelly		12/4/64	Typed memo	Technical Silvex Procurement
00015359	J.C. Kelly	F.R. Kennedy		12/2/64	Typed memo	Technical Silvex Procurement
00015360	F.R. Kennedy	J.C. Kelly		11/27/64	Typed memo	Technical Silvex Procurement

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015361	B.A. Sprayberry	E.L. Chandler	J.O. King R.A. Remerscheid R.F. Kennedy	11/25/64	Typed memo	Dacamine Complaints
00015362		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/25/64	Typed report	Complaint Status Report for Drum of Dacamine
00015363		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/23/64	Typed report	Complaint Status Report for Drum of Dacamine - Cover to #00015364
00015364	E. Luoma	M.F. Kennedy		9/10/64	Typed report	Complaint Report for Drum of Dacamine
00015365	E.R. Luoma	J.O. King	R. Remerscheid	10/9/64	Typed memo	Dacamine Complaint Sample
00015366- 00015367	R.A. Remerscheid	Dr. E.L. Chandler	J.O. King Dr. B.A. Sprayberry M. Rosenfeld F.R. Kennedy	10/22/64	Typed memo	Dacamine Complaint Sample

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015368	J.O. King	R.A. Remerscheid	Dr. E.L. Chandler F.R. Kennedy M. Rosenfeld Dr. B.A. Sprayberry	11/9/64	Typed memo	Dacamine 4-D Complaint Sample
00015369- 00015370	R.A. Remerscheid	J.O. King	Dr. E.L. Chandler Dr. B.A. Sprayberry F.R. Kennedy M. Rosenfeld	11/13/64	Typed memo	DACAMINE 4-D Complaint Sample
00015371- 00015372						Duplicate of #00015369-00015370
00015373	M. Rosenfeld	E. Bak	F.R. Kennedy R.A. Remerscheid	11/13/64	Typed memo	2# Silvex Specs
00015374						Duplicate of #00015368
00015375	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	10/27/64	Typed memo	2# Silvex Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015376- 00015377						Duplicate of #00015366-00015367
00015378	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	9/29/64	Typed memo	Dacamine Complaint Samples
00015379	F.R. Kennedy	J.C. Kelly	J.O. King	9/11/64	Typed memo	Silvex
00015380	J.C. Kelly	R.A. Remerscheid F.R. Kennedy	J.O. King	8/21/64	Typed memo	Silvex
00015381	J.C. Kelly	J.O. King		8/11/64	Typed memo	Silvex
00015382- 00015384	E.L. Chandler	File	F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid	7/31/64	Typed memo	Dacamine Complaints & Field Test
00015385	R.A. Remerscheid	H.A. Kohrmann	J.O. King Dr. E.L. Chandler F.R. Kennedy	7/29/64	Typed memo	Dacamine 4-D Analysis
00015386- 00015388	R.A. Remerscheid	J.S. Cort, Jr.		7/28/64	Typed memo	Dacamine Complaints

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015389	F.R. Kennedy	H. Kohrmann	J.O. King E.L. Chandler R.A. Remerscheid	7/27/64	Typed memo	Analysis of Dacamine 4-D Complaint Sample
00015390	Howard A. Kohrmann	F.R. Kennedy	J.O. King E.L. Chandler	6/8/64	Handwritten memo	Samples of Water & Dacamine re Complaint
00015391	F.R. Kennedy	J.S. Cort, Jr.	E.L. Chandler R.A. Remerscheid J.O. King	7/27/64	Typed memo	Dacamine Complaints
00015392	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	7/15/64	Typed memo	Dacamine Complaints
00015393	R.A. Remerscheid	Dr. R.J. Marrese	F.R. Kennedy E.R. Luoma Orville Oyleo	7/15/64	Typed memo	Dacamine Solvents
00015394	H.A. Branson	F.R. Kennedy	J.O. King	5/6/64	Typed memo	Dacamine Sample
00015395				7/13/64	Typed chart	Dacamine Complaint Samples

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015396	R.A. Remerscheid	Dr. E.L. Chandler	F.R. Kennedy	7/13/64	Typed memo	Amine
00015397- 00015408	Supplier of Amine	R. Remerscheid		6/30/64	Typed letter & attachments	Data on Supplier's Amines
00015409					Handwritten notes	Dacamine Complaints
00015410	E.L. Chandler	R.A. Remerscheid	F.R. Kennedy Milt Rosenfeld	7/9/64	Typed memo	Dacamine Quality Control
00015411- 00015412A	F.R. Kennedy	M.F. Wilkerson		5/4/64	Typed memo & attached figures	Dacamine D & T Formulations
00015413					Handwritten figures	Manufacturing Costs for Dacamines
00015414	Mike	RFG		1/29/64	Handwritten memo	Sample of Amine
00015415	F.R. Kennedy	H.A. Branson		4/29/64	Typed memo	Competitor's "Dacamine"

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015416	F.R. Kennedy	J.C. Kelly	J.O. King	4/13/64	Typed memo	Dacamine Inventory
00015417	J.C. Kelly	F.R. Kennedy	C.W. Feinberg J.O. King R.M. Hopkins	3/31/64	Typed memo	Dacamine Inventory
00015418	Chet Feinberg	J.C. Kelly	T. Hammer	3/23/64	Typed memo	Dacamine Inventory
00015419	R.A. Remerscheid	J.C. Kelly	J.S. Cort, Jr. J.O. King F.R. Kennedy	3/5/64	Typed memo	Dacamine Herbicides
00015420	J.C. Kelly	R.A. Remerscheid	J.O. King J.S. Cort, Jr. F.R. Kennedy	3/2/64	Typed memo	Dacamine Packaging
00015421	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy J.O. King W.J. Hotes	2/28/64	Typed memo	Dacamine Raw Material Requirements
00015422	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	2/25/64	Typed memo	Dacamine Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015423- 00015424	F.R. Kennedy	C.W. Feinberg	J.C. Kelly	2/25/64	Typed memo & attached notes	Dacamine Formulation Shipments
00015425	J.C. Kelly	F.R. Kennedy	R.A. Remerscheid C.W. Feinberg	2/21/64	Typed memo	Dacamine Shipments
00015426	M.F. Wilkerson	F.R. Kennedy	J.S. Cort, Jr. J.O. King R.A. Remerscheid	2/18/64	Typed memo	Dacamine Containers
00015427- 00015428	Mike	Dick		1/30/64	Handwritten memo & figures on shipment	Shipment of Dacamines
00015429	F.R. Kennedy	M.F. Wilkerson	J.S. Cort, Jr. J.O. King R.M. Remerscheid	1/31/64	Typed memo	Dacamine Formulations
00015430	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy	1/25/64	Typed memo	Dry T Acid Requirements
00015431	J.C. Kelly	R.A. Remerscheid	J.O. King	11/22/63	Typed memo	Dacamine Inventory

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015432	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	11/21/64	Typed memo	Dacamine-2D Formulation
00015433	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy W.E. Hill, Jr.	1/20/64	Typed memo	Dacamine-2D and -2T Formulations
00015434				1/17/64	Typed figures	Inventory of Dacamines
00015435	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	1/24/64	Typed memo	Dacamine Formulation
00015436- 00015437	M. Rosenfeld	R.F. Lindemann		1/16/64	Typed memo	2# Dacamine Formulation
00015438	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy B.A. Sprayberry	12/16/63	Typed memo	Cover Note to #00015439
00015439	M.R.			12/63	Handwritten graph	Temperature-Viscosity Curves For 4# Dacamine Concentrates
00015440						Duplicate of #00015395
00015441						Duplicate of #00015395

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015443- 00015444						Duplicate of #000150004-00015005
00015445- 00015452	Diamond Alkali Co.				Typed data with attached charts & graph	Dacamine Specifications
00015453	W.E. Hill, Jr.	J.C. Kelly	F.R. Kennedy	12/5/63	Typed memo	Dacamine Containers
00015454	J.C. Kelly	F.R. Kennedy	J.O. King M.F. Wilkerson	11/29/63	Typed memo	Dacamine Containers and Raw Materials
00015455						Duplicate of #00015431
00015456		Dick Light Mike			Handwritten memo	Shipping Costs

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015457	R.A. Remerscheid	J.C. Kelly	J.O. King F.R. Kennedy	11/25/63	Typed memo	Dacamine Raw Materials
00015458	B.A. Sprayberry	F.R. Kennedy	J.O. King H.A. Branson	12/5/63	Typed memo	Dacamine Viscosity
00015459	F.R. Kennedy	R.M. Remerscheid	J.S. Cort, Jr.	11/21/63	Typed memo	Dacamines (cover to #00015460-00015461)
00015460- 00015461				11/21/63	Typed memo	Mixing of Dacamine Formulations
00015462						Duplicate of #00015452
00015463	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	11/20/63	Typed memo	Dacamines
00015464	F.R. Kennedy	J.S. Cort, Jr.		11/20/63	Typed memo	Dacamines
00015465	R.F. Lindemann	R.A. Remerscheid		11/20/63	Typed memo	Dacamine Raw Materials
00015466	J.S. Cort, Jr.	F.R. Kennedy	R.A. Remerscheid	11/18/63	Typed memo	Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015467	F.R. Kennedy	J.P. McHaney	J.O. King	10/16/63	Typed memo	Analysis of Dacamine Sample
00015468	R.A. Remerscheid	J.C. Kelly	F. Kennedy	9/18/63	Typed memo	Dacamine Shipments
00015469	R.F. Lindemann	J.W. Daniel	R.A. Guidi	5/31/63	Typed memo	Analysis of Dacamine Samples
00015470	R.F. Lindemann	F.R. Kennedy	R.A. Guidi W.E. Hill, Jr.	3/25/63	Typed memo	Suitability of Dry Acid For Dacamine
00015471						Duplicate of #00015470
00015472	M. Rosenfeld	R.F. Lindemann	V. Cayton R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Preparation of Amine Salt of 2,4-D
00015473	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Amine for Dacamines
00015474	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/4/63	Typed memo	Preparation of Experimental Dacamine Sample
00015475- 00015476	R.J. Marrese	E.L. Chandler	Roy Davis A.L. Galloway R.A. Guidi J.O. King P.H. Schuldt D.M. Warburton	1/22/63	Typed memo	Dacamine Patentability

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015477	A.L. Galloway	R.J. Marrese	R.A. Guidi J.O. King P.H. Schuldt	12/31/62	Typed memo	Dacamine Formulations - Patent Rights
00015478	R.A. Remerscheid	R.A. Guidi	J.C. Kelly	1/15/63	Typed memo	Dacamine Requirements
00015479	R.A. Guidi	R.A. Remerscheid	E. Luoma	1/7/63	Typed memo	Dacamine Mix
00015480	R.A.G.	W.E.H. R.F.L. M.R.		1/3/63	Handwritten note	Cover Note
00015481	R.A. Remerscheid	R.A. Guidi		12/18/62	Typed memo	Dacamine Requirements 1963
00015482	E.R. Luoma	R. Remerscheid	J.O. King R.R. Wood	12/14/62	Typed memo	Dacamine Requirements 1963
00015483	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	1/3/63	Typed memo	Preparation of Amine Salt Sample
00015484- 00015485				1/17/63	Hand filled-in chart	Raw Materials Standards for 4# Dacamine T & D

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015486					Handwritten note	Dacamine - 1962
00015487						Duplicate of #00015477
00015488	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	12/14/62	Typed memo	Dacamine Formulations - Patent Rights
00015489	Supplier of Amine	R.A. Guidi		12/11/62	Typed letter	Amine for Dacamines
00015490	R.A. Remerscheid	R.A. Guidi		11/1/62	Typed memo	Estimated Dacamine Requirements 1963
00015491	R.A. Guidi	R.J. Marrese		10/31/62	Typed memo	Dacamine Silvex
00015492	R.J. Marrese	R. Guidi		10/25	Telex	Inventory of Dacamine Silvex
00015493	R. Guidi	R.J. Marrese		10/26	Telex	Silvex Acid for Conversion to Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015494	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	10/19/62	Typed memo	Dacamine Formulations
00015495- 00015501	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo & attachments	Viscosity & Stability of Dacamines
00015502- 00015503	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Recommendation & Description of a New #4 Dacamine-TP Formulation
00015504- 00015505					Typed memo	4# Dacamine-TP Specifications
00015506	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015507	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015508	R.F. Lindemann	W.E. Hill, Jr.	R.A. Guidi M. Rosenfeld	10/12/62	Typed memo	Chromatographic Analysis of Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015509- 00015511	R.L.	R.A. Guidi			Handwritten memo	Dacamine Stability
00015512	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines- Patentable Features
00015513	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi M. Rosenfeld	9/19/62	Typed memo	Extendability of Dacamine-T
00015514	R.A. Guidi	R.J. Marrese		9/19/62	Typed memo	Cover to #00015515
00015515	R.J. Marrese	J.P. Conroy	R.R. Wood R.A. Guidi	8/15/62	Typed memo	Extendability of Dacamine T
00015516	R.A. Guidi	J.C. Kelly	J.O. King	9/18/62	Typed memo	Dacamine Inventory
00015517	R.A. Guidi	Illegible		9/18/62		Cover Note to #00015518-00015519
00015518- 00015519						Duplicate of #00015004-00015005
00015520	R.A. Guidi	J.O. King	H.S. Weiner	8/6/62	Typed memo	Amines for Dacamine
00015521	J.O. King	R.A. Guidi	H.S. Weiner	7/26/62	Typed memo	Amines for Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015522	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill	5/15/62	Typed memo	Dacamine Formulations- Aging Tests
00015523	R.A. Guidi	R.J. Marrese		5/4/62	Typed memo	Label For Dacamines
00015524	R.J. Marrese	P.H. Schuldt	R.A. Guidi J.O. King	5/3/62	Typed memo	Nomenclature for Dacamines
00015525	R.A. Guidi	J.C. Kelly		4/17/62	Typed memo	Dacamine Shipment
00015526	R.A. Guidi	J.O. King	E. Chandler H.S. Weiner	4/16/62	Typed memo	Dacamine Samples
00015527	R.A. Guidi	R.J. Marrese	T.O. Evrard	4/12/62	Typed memo	Shipment of Dacamine T Samples
00015528		R.A. Guidi				Routing Slip
00015529	R.J. Marrese	Ernst V. Bender Macon Research Center	T.O. Evrard R.A. Guidi	4/9/62	Typed letter	Non-Emulsifiable Dacamines
00015530	Ernst V. Bender Macon Research Center	T.O. Evrard		4/6/62	Typed letter	Proposed Test on Dacamine T (Non-Emulsifiable)

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015531	R.A. Guidi	R.J. Marrese		4/12/62	Typed memo	Dr. Smith's Report re Dacamines
0015532	R.J. Marrese	Dr. Roy J. Smith U.S. Dept. of Agric., Crops Research Div.	R.A. Guidi DeWitt Handly E.G. Osborne	4/9/62	Typed letter	Dacamine 2,4-D & 2,4,5-T Samples
0015533- 0015534	Roy J. Smith, Jr. U.S. Dept. of Agric., Crops Research Div.	DeWitt Handly		4/5/62	Typed letter	Rice Samples & Treatments (With Procedure & Results)
0015535	Milton	R.A. Guidi		4/4/62	Handwritten memo	4# Dacamine-D and -T Samples
0015536- 0015537	Milton Rosenfeld	R. Lindemann		4/3/62	Typed memo & attached cost sheet	Cost Sheet for 4# Dacamine-D
0015538	R.J. Marrese	All Branch Managers All Ag Chem Specialists	R.A. Guidi R.A. Remerscheid R.R. Wood	3/3/62	Typed memo	Testing of MCP-Dacamine
0015539	R.J. Marrese	All Branch Managers All Ag Chem Specialists	R.A. Guidi R.A. Remerscheid R.R. Wood	4/2/62	Typed memo	Dacthal-Dacamine Combinations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015540- 00015541	R.J. Marrese	R.A. Guidi		3/26/62	Typed memo	Formulation of Amine With 2,4-D & 2,4,5-T Dry Acids
00015542	R.J. Marrese	R.A. Guidi	J.O. King R.A. Remerscheid H.S. Weiner	3/21/62	Typed memo	Dacamine D Granules
00015543	R.J. Marrese	R.A. Remerscheid	J.A. Borrer R.A. Guidi F.M. Kennedy M. Rosenfeld	3/2/62	Typed memo	Dacamine Granulars
00015544	R.A. Guidi	J.C. Kelly	H.S. Weiner T.O. Evrard	3/16/62	Typed memo	Dacamine Raw Material Orders
00015545	J.C. Kelly	R.A. Guidi		3/13/62	Typed memo	Dacamine Order
00015546	R.A. Guidi	R.A. Remerscheid		3/12/62	Typed memo	Dacamine Granulars
00015547	J.A. Borrer	R.A. Remerscheid	R.J. Marrese R.A. Guidi F.M. Kennedy M. Rosenfeld	3/9/62	Typed memo	Dacamine Granulars

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015548	R.A. Guidi	R.J. Marrese	R.A. Remerscheid J.O. King J.A. Borrer	3/1/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015549	J.A. Borrer	R.J. Marrese	R.A. Guidi F.M. Kennedy M. Rosenfeld R.A. Remerscheid	2/26/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015550	J.A. Borrer	File	M. Kennedy J. Clark R.A. Guidi	2/21/62	Typed memo	Dacamine-D & -T Requirements
00015551	R.J. Marrese	J.A. Borrer	R.A. Guidi R.A. Remerscheid	12/19/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015552- 00015553	R.J. Marrese	R.A. Guidi		12/18/61	Typed memo	Dacamine Formulations
00015554						Duplicate of #00015565
00015555	J.R. Clark	J.A. Borrer	R.A. Guidi M. Rosenfeld	1/31/62	Typed memo	Raw Material Costs for 6# Technical Dacamine-D

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015556	R.A. Guidi	J.C. Kelly		1/30/62	Typed memo	Standard Cost for Dacamine 2T
00015557	J.C. Kelly	R.A. Giudi		1/24/62	Typed memo	Standard Cost for Dacamine 2T
00015558	R.A. Guidi	R.A. Remerscheid	J.O. King C.W. Feinberg H.S. Weiner	1/30/62	Typed memo	Dacamine Granulars
00015559	J.C. Kelly	C.W. Feinberg	E.L. Chandler R.A. Guidi	1/17/62	Typed memo	Dacamine Label
00015560	R.A. Remerscheid	J.O. King	R.A. Guidi C. Feinberg H.C. Weinberg	12/1/61	Typed memo	Dacamine Granulars
00015561- 00015564	J.R. Clark	J.A. Borrer	F. Bobrowicz R.A. Guidi F.R. Kennedy M. Rosenfeld	1/15/62	Typed memo	Formulations of Dacamines - Operating Instructions - General Procedure
00015565	R.J. Marrese	R.A. Guidi		1/10/62	Typed memo	Formulation of Oil-Soluble, Water- Emulsifiable Amines
00015566	R.A. Guidi	J.O. King	R.L. Chandler R.J. Marrese	12/13/61	Typed memo	Raw Materials Inventory for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015567	R.A. Guidi	J.O. King	R.J. Marrese H.S. Weiner	11/22/61	Typed memo	Dacamine Sales Forecast
0015568	R.J. Marrese	R.A. Guidi	J.R. Clark J.O. King M. Rosenfeld	10/25/61	Typed memo	Raw Materials for Dacamines
0015569	J.O. King	R.A. Remerscheid	R.A. Guidi C.W. Feinberg	11/6/61	Typed memo	Dacamine Granulars
0015570	J.R. Clark	M. Rosenfeld	R.A. Guidi F.R. Kennedy	9/25/61	Typed memo	Amine for Dacamines
0015571	R.A. Guidi	R.J. Marrese	E.L. Chandler J.R. Clark J.O. King H.S. Weiner	9/21/61	Typed memo	Amine Sample
0015572	R.J. Marrese	R.A. Guidi	J.O. King E.L. Chandler J.R. Clark	9/5/61	Typed memo	Amine
0015573	J.O. King	R.A. Guidi	E.L. Chandler R.J. Marrese T.O. Evrard H.S. Weiner	8/31/61	Typed memo	Amine for Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015574	H.S. Weiner	J.O. King	E.L. Chandler R.A. Guidi	8/31/61	Typed memo	Anticipated Sales of Dacamine
00015575	E.L. Chandler	Dr. R. J. Weir, Jr. Hazelton Labs Falls Church, Va.	R.A. Guidi J.O. King	9/19/61	Typed letter	Toxicological Tests on D/T Amine and Formula for Same
00015576	R.J. Marrese	R.A. Guidi	J.R. Clark	9/7/61	Typed memo	Cover to #00015577
00015577	R.J. Marrese	All Branch Managers All Ag Chem Specialists		9/6/61	Typed memo	Dacamine Use
00015578- 00015579	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	9/1/61	Typed memo	Label Data For Dacamines
00015580- 00015581	R.A. Guidi	H.S. Weiner	J.O. King	8/30/61	Typed memo	Dacamine Costs and Process
00015582	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	8/3/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015583	R.J. Marrese	J.R. Clark		7/28/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine
0015584	R.A. Guidi	J.O. King	H.S. Weiner R.A. Remerscheid	7/23/61	Typed memo	Trade Report re Labeling of Samples
0015585	D.J. Dickson			6/27/62	Typed report	Trade Report re Labeling of Samples
0015586	M. Rosenfeld	R.A. Guidi		7/18/62	Typed memo	Dacamine Samples
0015587	R.A. Guidi	Harold Branson	J.O. King H.S. Weiner	6/20/62	Typed memo	Dacamine Formulations
0015588	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/14/62	Typed memo	Production and Properties of Dacamine Formulations
0015589	R.A. Guidi	J.O. King	J.C. Kelly H.S. Weiner	4/6/62	Typed memo	Properties of 4# Dacamine-D Formulation
0015590	J.O. King	R.A. Guidi	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/11/62	Typed memo	Dacamine Inventories

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015591	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	6/13/62	Typed memo	Formula for Dacamine D/T
00015592	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson	5/18/62	Typed memo	Dacamine Inventories
00015593	R.A. Guidi	H. Branson	J.O. King R.F. Lindemann M. Rosenfeld	5/17/62	Typed memo	Dacamine Formulations
00015594	Milton Rosenfeld	R.A. Guidi		5/14/62	Typed memo	Dacamine Samples
00015596- 00015597					Handwritten calculations	Dacamine Ingredients
00015598- 00015600	F.R. Kennedy	H.H. Harris		9/17/73	Typed memo	Dacamine Product Labeling

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015601	A.F. Marks	F.R. Kennedy	G.D. Munger	9/18/73	Typed memo	Ingredient Statements, Dacamine Products
0015602	F.R. Kennedy	File		9/17/73	Typed memo	Dacamine Active Ingredient Calculations
0015603- 0015609					Handwritten calculations	Dacamine Ingredients
0015610- 0015611					Specimen labels	Dacamine & Dacamine 4D
0015612- 0015615	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt J. Synek	3/3/69	Typed memo	Data on Dacamine Formulations
0015616						Duplicate of #00015036
0015617- 0015621						Duplicate of #00015037-00015041

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015622- 0015626						Duplicate of #00014951-00014955
0015627- 0015630						Duplicate of #00014956-00014959
0015631- 0015633						Duplicate of #00014941-00014943
0015634- 0015639						Duplicate of #00014944-00014950
0015640	F.R. Kennedy	A. Marks	G.D. Munger	9/14/73	Typed memo	Ingredient Statements for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015641- 0015642						Duplicate of #00015155-00015156
0015643- 0015646						Duplicate of #00014956-00014959
0015647- 0015649						Duplicate of #00014941-00014943
0015650- 0015651	G.L. Pratt	M.F. Kennedy	E.L. Chandler R.A. Guidi J.A. Ignatoski J.O. King F.G. Steward	8/27/68	Typed memo	Dacamine Formulations
0015652- 0015653						Duplicate of #00015650-00015651
0015654						Duplicate of #00014991

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015655						Duplicate of #0001501
00015656						Duplicate of #00015003
00015657- 00015660	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	4/3/67	Typed memo	Raw Materials for Dacamine Formulations
00015661	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.P. McCabe R.A. Guidi	10/7/69	Typed memo	Specification for Amine in Dacamine Formulations
00015662- 00015666						Duplicate of #00015037-00015041
00015667						Duplicate of #00015243
00015668- 00015671						Duplicate of #00015246-00015249
00015672	R.L. Urbanowski	F.G. Steward	E.L. Chandler R.A. Guidi J.O. King J.A. Ignatoski A. DiDario F.R. Kennedy	4/3/68	Typed memo	Dacamine 1968 Field Program

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015673	R.A. Remerscheid	G.L. Pratt		11/18/68	Typed memo	Cover to #00015674-00015681
0015674- 0015681	R.A. Remerscheid	R.A. Guidi	Bill Pierson J.O. King T. Neidlinger	5/20/66	Typed memo	Emulsification of Dacamine 4D
0015682- 0015685						Duplicate of #00015237-00015240
0015686- 0015687						Duplicate of #00015043-00015044
0015688	J.A. Ignatoski	J.P. McCabe	W.H. Bricker G.L. Pratt J.O. King R.A. Guidi	9/4/69	Typed memo	Dacamine Formulation Study
0015689- 0015692						Duplicate of #00003253-00003256

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015694- 00015695						Duplicate of #00001459-00001460
00015696						Duplicate of #00000762
00015697						Duplicate of #00000769
00015698- 00015700						Duplicate of #00000773-00000775
00015701						Duplicate of #00000776
00015702						Duplicate of #00000777

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015703						Duplicate of #000000768
0015723 0015774 0015776-78 0015861 0015863-67 0015869						Selected Specifica- tion Sheets from Specification Notebook
0016061- 0016069	R.M. Bimber	O.K. Furuta	H. Hlynsky R.H. Lasco E.A. Lavergne Central Files	7/28/78	Typed memo	Yields of Chloro- acetic Acid & 2,4- Dichlorophenol
0017451- 0017457				12/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different Plants

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017462- 0017464	F. Gordon Steward			12/10/69	Typed memo	Ag Chem Div - Newark Plant Operating Comments November 1969
0017466- 0017467	F. Gordon Steward			10/8/69	Typed memo	Biochem Div - Newark Plant Operating Comments September 1969
0017468- 0017472				8/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different Plants
0017473		R.L. Chonoles		6/2/69	Typed letter	Manufacturing Chemists Ass'n Certificate of Achievement For Newark Plant
0017474- 0017476						Duplicate of #00014985-00014987

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017740	F.R. Kennedy	C.H. Gilbert		11/9/70	Typed memo	Analysis of Dacamine
0017741- 0017742	A.E. Conroy II U.S. Dept. of Agric.	C.H. Gilbert		8/14/70	Typed letter & attached Official Method of Analysis	Analysis of Dacamine
0017743	G.D. Munger	Ralph McElhaney	C.H. Gilbert	7/2/70	Typed memo	Amine for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017744	R.E. Gilmore	C.H. Gilbert		5/20/70	Typed memo	Dacamine Containers
00017745- 00017746	C.H. Gilbert	A.E. Conroy II U.S. Dept. of Agric.	(bcc) R.C. Andrews H.H. Harris	6/5/70	Typed letter & attached 2,4-D Method of analysis	Analysis of Dacamine
00017747	R.A. Guidi	C.H. Gilbert	J.P. McCabe R.A. Bruckman H.H. Harris	3/18/70	Typed memo	Dacamine Label
00017748	C.H. Gilbert	R.A. Guidi		3/12/70	Typed memo	Labelling of Dacamine Shipments
00017749	R.A. Bruckman	R.A. Guidi	F.R. Kennedy J.P. McCabe C.H. Gilbert J.C. Kelly L.E. Rauch M.E. Engleka R.L. Ellis E.P. Worthington L.F. Schuelke	2/27/70	Typed memo	Dacamine Packaging
00017750	J.O. King	C.H. Gilbert	J.P. McCabe	3/11/70	Typed memo with hand- written notes	Application of Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017751	C.H. Gilbert	J.O. King	J.P. McCabe	3/6/70	Typed memo	Application of Dacamine
0017752- 0017755	Stuart W. Turner, Stuart W. Turner & Co., Inc.	C.H. Gilbert		2/24/70	Typed letter & attached newspaper clippings	Application of Dacamine
0017756- 0017758	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi J.O. King M.F. Wilkerson	2/1/67	Typed memo & attached chart	Dacamine Profitability - Year 1966
0017759						Duplicate of #00017751
0017760	J.O. King	C.H. Gilbert	J.P. McCabe G.D. Munger	2/25/70	Typed memo	Dacamine - Insurance Matter
0017761	C.H. Gilbert	Lowell E. Miller, U.S. Dept. of Agric.	R.C. Andrews R.A. Bruckman F.R. Kennedy Citation File	2/20/70	Typed letter	Dacamine - Sample Assay; Addendum to Label
0017762	C.H. Gilbert	S. Turner, Stuart W. Turner Co., Inc.		2/18/70	Typed letter	Dacamine - Volatility
0017763- 0017767						Duplicate of #00015037-00015041

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017768						Duplicate of #00014884
00017769						Duplicate of #00014940
0017770	M. Hochberg	J. Synek	P.H. Schuldt J.L. Fordham G.G. Pirrone A.B. Tillman R.A. Guidi	1/10/69	Typed memo	Dacamine Formulation
0017771	Joe Synek	Mel Hochberg				Routing Slip

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017772- 0017781						Duplicate of #00014941-00014950
0017782	J.P. McCabe	J.C. Kelly	J.O. King	11/6/69	Typed memo	Dacamine Promotion

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017783					Typed memo	Tentative Specification (Dacamine Emulsifiable Concentrate)
0017784	J.P. McCabe	C.H. Gilbert R.A. Guidi J.A. Ignatoski F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid G.L. Troph		9/26/69	Typed memo	Dacamine Formulations Meeting
0017785	M.E. Engleka	J.A. Ignatoski	J.O. King R.A. Guidi J.P. McCabe R.A. Remerscheid	9/25/69	Typed memo	Assay of Dacamine Complaint Sample
0017786	C.H. Gilbert	J.O. King	W.H. Bricker	9/25/69	Typed memo	Dacamine Formulation
0017787- 0017788						Duplicate of #00014848-00014849

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0017789- 0017793						Duplicate of #00014951-00014955
0019395	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi F.R. Kennedy J.P. McCabe	9/3/69	Typed memo	D/T Acid Samples for Dacamine Production
0019578- 0019580						Duplicate of #00011150-00011152

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0019634	J.R. Baldridge			4/21/56 to 10/26/56	Research notebook	Excerpt From Research Notebook No. 2258
0019637- 0019639	C.E. Entemann			5/13/53 to 8/7/53	Research notebook	Excerpt From Research Notebook No. 1400 Vol. VII
0019641- 0019642	C.E. Entemann			7/23/56 to 5/21/57	Research notebook	Excerpt From Research Notebook No. 2318 Vol. XXI
0019646- 0019647	C.E. Entemann			1/3/61 to 9/61	Research notebook	Excerpt From Research Notebook No. 4147 Vol. V
0019653- 0019654	C.E. Entemann			10/1/61 to 1/11/63	Research notebook	Excerpt From Research Notebook No. 4165
0019716- 0019717	Walter H. Gunn			4/30/62 to 7/24/62	Research notebook	Excerpt From Research Notebook No. 4907
0019729	Walter H. Gunn			7/25/62 to 10/25/62	Research notebook	Excerpt From Research Notebook No. 4998

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0019774	Alex Hlynsky			1/7/55 to 3/18/55	Research notebook	Excerpt From Research Notebook No. 1827
0019812	Alex Hlynsky			3/22/55 to 5/20/55	Research notebook	Excerpt From Research Notebook No. 1880
0019833, 0019839	Alex Hlynsky			5/55 to 4/58	Research notebook	Excerpts From Research Notebook No. 1947
0019848	A.J. Judge			6/17/57 to 8/23/57	Research notebook	Excerpt From Research Notebook No. 2782
0019873	George A. Miller			1/8/57 to 6/15/57	Research notebook	Excerpt From Research Notebook No. 2549
0019879	George A. Miller			6/13/57 to 8/14/57	Research notebook	Excerpt From Research Notebook No. 2778
0019888	George A. Miller			4/4/62 to 6/7/62	Research notebook	Excerpt From Research Notebook No. 4777
0019893	R.L. Urbanowski			5/3/62 to 4/8/65	Research notebook	Excerpt From Research Notebook No. 4903

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019946-48, 00019954	F.L. Curry			1/1/61 to 7/31/61	Research notebook	Excerpts From Research Notebook No. 4334
00020078	R. Steinkoenig			3/1/62 to 9/14/62	Research notebook	Excerpt From Research Notebook No. 4176
00020212	Joseph Budner			9/1/61 to 12/26/61	Research notebook	Excerpt From Research Notebook No. 4592
00020264	Richard E. Mackey			10/10/61 to 2/12/62	Research notebook	Excerpt From Research Notebook No. 4625
00020282	Gerald Schrag			8/15/72 to 3/30/73	Research notebook	Excerpt From Research Notebook No. 7976
00020375-76 00020390-93 00020395-96 00020398-401 00020403 00020407	B.A. Sprayberry			11/26/63 to 3/5/65	Research notebook	Excerpts From Research Notebook No. 5345

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020413-15 00020418-19 00020424-25	B.A. Sprayberry			1/9/65 to 5/13/68	Research notebook	Excerpts From Research Notebook No. 5588
00020465, 00020468	Joe Synek J. Brennan			12/28/68 to 7/22/69	Research notebook	Excerpts From Research Notebook No. 6839
00020470	Joseph T. Brennan			1/29/70 to 11/11/70	Research notebook	Excerpt From Research Notebook No. 7173
00020477- 00020485	Joseph Budner			6/19/70 to 11/13/70	Research notebook	Excerpt From Research Notebook No. 7283
00020616	J.J. Browne	H.E. Everson	J.L. Fordham	4/28/67	Progress report	Semi-Works Progress Report April 1967
00020617- 00020625	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	3/9/67	Progress report & charts	Status Report - Semi-Works February, 1967

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0020626- 0020633	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	2/8/67	Progress report & charts	Status Report - Semi-Works January, 1967
0020634- 0020642	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	1/14/67	Progress report & charts	Status Report - Semi-Works December, 1966
0020643- 0020650						Duplicate of #00020626-00020633
0020651- 0020659						Duplicate of #00020634-00020642
0020660- 0020665	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	12/9/66	Progress report & charts	Status Report - Semi-Works November, 1966
0020666- 0020672	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	11/9/66	Progress report & charts	Status Report - Semi-Works October, 1966
0020673- 0020679	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone A.B. Tillman	10/11/66	Progress report & charts	Status Report - Semi-Works September, 1966
0020680- 0020686	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	4/11/66	Progress report & charts	Status Report - Semi-Works March, 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020687- 00020692	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	2/14/66	Progress report & charts	Status Report - Semi-Works January, 1966
00020693- 00020701		The Research Advisory Committee		5/7/63	Progress report	Consolidated Progress Report R & D Department April 1953
00020807- 00020817	C.L. Dunning	H.E. Everson	H.N. Benedict J. Coleman C.D. Hildebrecht J.J. Mannion R.A. Murie K.J. O'Leary I.E. Smiley D.E. Stallard R.L. Annis J.L. Fordham A.X. Hirsch D.E. Hudgin W.J. Lightfoot T.S. Perrin D.J. Porter P.H. Schuldt L.P. Seyb P.L. Slusser B. Wainio C.T. Cross D.M. Warburton E. Zinn R.G. Banner T.S. DeWoody G.B. Myers R.A. Springer	11/30/62	Progress report	Progress Report - Analytical Section August 1962 Thru October 1962

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020864- 00020875	C.L. Dunning	T.F. Holder	H.N. Benedict J.G. Coleman H.E. Everson C.D. Hildebrecht J.J. Mannion B. McNiff R.A. Murie K.J. O'Leary P.L. Slusser I.E. Smiley D.E. Stallard R.L. Annis A. Hirsch T.S. Perrin D.J. Porter G.F. Rugar N.V. Seeger L.P. Seyb Cross Warburton R.G. Banner J.A. Borrer T.S. DeWoody J.L. Fordham C.B. Myers R.A. Springer	5/5/60	Progress report	Progress Report - Analytical Section January thru April 1960

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020876- 00020881	C.E. Entemann	R.L. Annis	R.A. Berkey C.M. Brown G.J. Disberger D.L. Edds H.E. Everson R.B. Lasco W.J. Lightfoot E.R. Osgood F.R. Pool G.A. Reott R. Steinkoenig Central File	10/15/62	Progress report	Laboratory Process Development - January-September 1, 1962
00020893- 00020903	C.E. Entemann	R.L. Annis	D.M. Black C.T. Cross G.J. Disberger H.E. Everson R.A. Jimenez P.C. Lang W.J. Lightfoot E.R. Osgood J.A. Resetar M.J. Skeeters F.B. Slezak R. Steinkoenig Central File	10/2/61	Progress report	July - September 1961

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020910- 00020912	H.E. Everson	G.G. Pirrone	J.L. Fordham	9/6/68	Progress report	Progress Report
00020913- 00020916	H.E. Everson	G.G. Pirrone	J.L. Fordham	3/3/67	Progress report	Research Progress Report February 1967
00020952- 00020956	A. Hlynsky	M.J. Skeeters		8/22/57	Progress report	July 1 - August 15, 1957
00020957- 00020960	A. Hlynsky	M.J. Skeeters		7/12/57	Progress report	June 1957
00020961- 00020964	A. Hlynsky	M.J. Skeeters		6/13/57	Progress report	April and May 1957
00020973- 00020977	A. Hlynsky	M.J. Skeeters		12/21/56	Progress report	Chlorinated Products Division Research Group November & December 1956
00020988- 00020990	A. Hlynsky	M.J. Skeeters		1/4/56	Progress report	December 1955

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020991- 00020995	A. Hlynsky	M.J. Skeeters		11/30/55	Progress report	October and November 1955
00020996- 00020999	A. Hlynsky	M.J. Skeeters		10/5/55	Progress report	September 1955
00021000- 00021002	A. Hlynsky	M.J. Skeeters		8/29/55	Progress report	July and August 1955
00021024- 00021026	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	7/31/73	Progress report	Process Development Progress Report July 1973
00021027- 00021029	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	7/2/73	Progress report	Process Development Progress Report Second Quarter 1973
00021030- 00021032	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	6/4/73	Progress report	Process Development Progress Report May 1973

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021033- 0021034	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	4/30/73	Progress report	Process Development Progress Report April 1973
0021035- 0021037	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	3/30/73	Progress report	Process Development Progress Report First Quarter 1973
0021038- 0021040	E.A. Lavergne	R.R. Irani	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	2/27/73	Progress report	Process Development Progress Report February 1973
0021041- 0021043	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	1/29/73	Progress report	Process Development Progress Report January 1973

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021044- 00021046	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	1/4/73	Progress report	Process Development Progress Report Fourth Quarter 1972
00021047- 00021049	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	12/7/72	Progress report	Process Development Progress Report November 1972
00021050- 00021051	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	11/2/72	Progress report	Process Development Progress Report October 1972
00021052- 00021054	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	10/5/72	Progress report	Process Development Progress Report September 1972

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021135- 00021136	J.J. Lukes	K.J. O'Leary	R.R. Irani E.A. Lavergne C.L. Sieglaff Central File	12/1/72	Progress report	1972-11
00021138- 00021139	J.J. Lukes	K.J. O'Leary	R.R. Irani Central File	10/5/72	Progress report	1972-9
00021170- 00021171	J.J. Lukes	R.C. Sutter		4/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (February & March 1961)
00021172- 00021173	J.J. Lukes	R.C. Sutter		2/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (December 1960 & January 1961)
00021178- 00021179	J.J. Lukes	K.J. O'Leary	R.R. Irani C.L. Sieglaff A.D. Babinsky Central File	2/21/73	Progress report	1973-2
00021180- 00021183	G.A. Miller	A. Hlynsky		6/6/57	Progress report	April & May 1957

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021210- 00021212	D.J. Porter	T.F. Holder	R.L. Annis Cross Warburton C.L. Dunning H.E. Everson A. Hirsch J.C. Noyes T.S. Perrin G.F. Rugar N.V. Seeger L.P. Seyb R.G. Banner T.S. DeWoody J.L. Fordham R.F. Lindemann C.B. Myers R.A. Springer	5/13/60	Progress report	Planning & Economics Group
00021294- 00021298	M.J. Skeeters	D.J. Porter		12/1/55	Progress report	October and November 1955
00021299- 00021303						Duplicate of #00020991-00020995
00021368- 00021370	E. Zinn	H.E. Everson	R.L. Annis D.M. Black C.T. Cross D.M. Warburton C.L. Dunning A. Hirsch D.E. Hudgin R.J. Koll W.J. Lightfoot J.C. Noyes D.J. Porter P.H. Schuldt L.P. Scoville L.P. Seyb	6/4/62	Progress report	Pilot Plant Preparation Reports

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021377- 00021378	E. Zinn	W.J. Lightfoot	R.L. Annis H.E. Everson R.J. Koll J.J. Lukes D.J. Porter F.J. Skala Central File	5/4/62	Progress report	Pilot Operations April 1962
00021390- 00021394	R. Battershell	H. Bluestone		2/13/61	Progress report	January-February 1961
00021395- 00021400	R.D. Battershell	H. Bluestone		1/6/61	Progress report	November-December 1960
00021412- 00021416	A.L. Galloway	G.F. Rugar	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb J.R. Trocki L.G. Utter R.L. Annis H. Bluestone C.L. Dunning C.B. Myers T.S. Perrin D.J. Porter N.V. Seeger I. Rosen	10/1/58	Progress report	Agricultural Chemicals Product Development August 16 - September 30, 1958

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021417- 00021422	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters J.R. Trocki L.G. Utter	8/18/58	Progress report	Agricultural Chemicals - Chlorinated Products Division July 1 - August 15, 1958
00021423- 00021428	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	6/30/58	Progress report	Agricultural Chemicals - Chlorinated Products Division May 16 - June 30, 1958
00021429- 00021433	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	5/15/58	Progress report	Agricultural Chemicals - Chlorinated Products Division April 1 - May 15, 1958
00021434- 00021439						Duplicate of #00021423-00021428

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021440- 00021444						Duplicate of #00021429-00021433
00021559- 00021560	J. Synek	A.L. Galloway		1/22/69	Progress report	Monthly Report January 1969
00021562	J. Synek	A.L. Galloway		9/25/67	Progress report	Monthly Report September 1967
00021565	J. Synek	A.L. Galloway		9/21/66	Progress report	Monthly Report September 1966
00021566- 00021567	J. Synek	A.L. Galloway		4/25/66	Progress report	Monthly Report April 1966
00021568- 00021569	J. Synek	A.L. Galloway		3/24/66	Progress report	Monthly Report March 1966
00021570- 00021571	A. Whyte	W.A. Gallup	R.L. Cryberg W.A. Janz R.H. Lasco E.A. Lavergne Central Files	1/23/73	Progress report	January 1973

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0021583- 0021590	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) J.O. King R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	4/9/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division February 16 - March 31, 1958
0021591- 0021600	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway E.C. Gardes B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	2/15/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division January 1 - February 15, 1958
0021601- 0021605	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	12/31/57	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division November 16- December 31, 1957

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021607	L.G. Utter	D.J. Porter		11/15/57	Progress report	Research Oct. 1 - Nov. 15, 1957
00023994- 00023995	E. Bak			1/12/66	Typed memo	Operating Comments Maintenance and Utilities December 1965
00024011- 00024012	E. Bak			12/8/65	Typed memo	Operating Comments Production and Technical November 1965
00024083	E. Bak			3/10/65	Typed memo	Operating Comments Plant Technical February 1965
00024088	E. Bak			2/9/65	Typed memo	Operating Comments Plant Technical January 1965
00024094	E. Bak			1/13/65	Typed memo	Operating Comments Plant Technical December 1964
00024114- 00024116	A.M. Hauser			9/8/64	Typed memo	Summary of Variances- August 1964 Ag. Chem. Div., Newark Plant

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024126- 00024128	A.M. Hauser			7/7/64	Typed memo	Summary of Variances- June 1964 Ag. Chem. Div., Newark Plant
00024132- 00024134	A.M. Hauser			6/10/64	Typed memo	Summary of Variances- May 1964 Ag. Chem. Div., Newark Plant
00024145- 00024147	A.M. Hauser			3/11/64	Typed memo	Summary of Variances- March 1964 Ag. Chem. Div., Newark Plant
00024151- 00024152	R.F. Lindemann			3/10/64	Typed memo	Operating Comments Plant Technical February 1964
00024159- 00024160	R.F. Lindemann			2/10/64	Typed memo	Operating Comments Plant Technical January 1964
00024166- 00024167	R.F. Lindemann			1/7/64	Typed memo	Operating Comments Plant Technical December 1963

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024651- 00024653						Duplicate of #00017462-00017464
00024654- 00024656	F. Gordon Steward			11/12/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments October 1969
00024657- 00024658						Duplicate of #00017466-00017467
00024659- 00024661	F. Gordon Steward			9/10/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments August 1969
00024662- 00024664	A.M. Hauser				Typed memo	Summary of Variances July 1969 Biochem. Div. Newark Plant
00024667- 00024669	F. Gordon Steward			8/13/69	Typed memo	Operating Comments Plant Technical July 1969

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024670- 00024671	A.M. Hauser				Typed memo	Summary of Variances June 1969 Biochem. Div. Newark Plant
00024673- 00024676	F. Gordon Steward			7/9/69	Typed memo	Operating Comments Plant Technical June 1969
00024683- 00024687	F. Gordon Steward			6/69	Typed memo	Operating Comments Plant Technical May 1969
00024701	R. Chonoles			4/9/69	Typed memo	Operating Comments Production March 1969
00024703- 00024706	F. Gordon Steward			4/9/69	Typed memo	Operating Comments Plant Technical March 1969
00024713- 00024716	F. Gordon Steward			3/12/69	Typed memo	Operating Comments Plant Technical February 1969
00024717- 00024723	A.M. Hauser			2/12/69	Typed memo	Summary of Variances January 1969 Biochem. Div. Newark Plant

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0024724- 0024728	F. Gordon Steward			2/12/69	Typed memo	Operating Comments Plant Technical January 1969
0024786- 0024788	R. Light E. Prato			11/8/62	Typed chart	Daco Products- Newark Plant Weights & Containers
0024790	MR			12/63	Graph	Temperature- Viscosity Curves for 4# Dacamine Concentrates
0024794- 0024796	F.G. Steward	E. Bak	F.R. Kennedy	1/13/66	Typed memo	Monthly Report- December 1965
0024797- 0024799	F.G. Steward	E. Bak	F.R. Kennedy	12/8/65	Typed memo	Monthly Report- November 1965
0024827						Duplicate of #00014626

AFFIDAVIT OF SERVICE

STATE OF NEW YORK)
 : ss.:
COUNTY OF NEW YORK)

MICHAEL M. GORDON, being duly sworn, deposes and says:

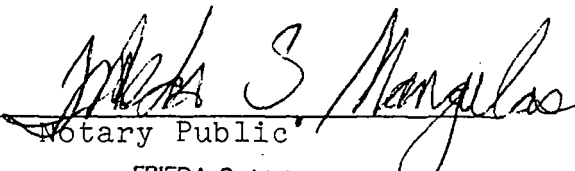
1. I am not a party to this action, am over 18 years of age and reside at 12 West 72nd Street, New York, New York 10023.

2. On July 26, 1982, I served the annexed Notice of Confidentiality and Index of Confidential Documents of Defendant Diamond Shamrock Corporation on each of the persons named on the annexed list by depositing a true copy of same enclosed in a post-paid properly addressed wrapper, in an official depository under the exclusive care and custody of the United States Postal Service within the State of New York.



Michael M. Gordon

Sworn to before me this
20th day of July, 1982



Notary Public

FRIEDA S. MANGULAS
Notary Public, State of New York
No. 24-4664761
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1984

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135 South LaSalle Street
Suite 1060
Chicago, Illinois 60603

COPIES OF ALL DOCUMENTS MUST
BE SENT TO:

Clerk of the Panel
Judicial Panel on Multidistrict
Litigation
1120 Vermont Avenue, N.W.
Suite 1002
Washington, D.C. 20005

FOR PLAINTIFFS

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(lead counsel)
Yannacone & Yannacone
Post Office Drawer #109
Patchogue, New York 11772

Irving Like, Esq.
Reilly, Like & Schneider
200 West Main Street
Babylon, N. Y. 11702

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----x

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U. S. DISTRICT COURT E.D. N.Y.

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TIME A.M. _____
P.M. _____

In re

"AGENT ORANGE"

MDL No. 381

(All Cases)

Product Liability Litigation

-----x

NOTICE OF CONFIDENTIALITY
AND INDEX OF CONFIDENTIAL
DOCUMENTS OF DEFENDANT
THE DOW CHEMICAL COMPANY

RIVKIN, LEFF, SHERMAN & RADLER
ATTORNEYS AND COUNSELLORS AT LAW
100 GARDEN CITY PLAZA, GARDEN CITY, N.Y. 11530

803
(103)

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

In re

MDL No. 381 (GCP)
(All Cases)

"AGENT ORANGE"

NOTICE OF CONFIDENTIALITY
AND INDEX OF CONFIDENTIAL
DOCUMENTS OF DEFENDANT
THE DOW CHEMICAL COMPANY

Product Liability Litigation

-----X

Pursuant to the Protective Order Regarding Production of Confidential Documents By Defendants dated February 6, 1981 (the "Confidentiality Order"), defendant The Dow Chemical Company ("Dow") annexes hereto a Notice of Confidentiality and Index of Confidential Documents for those documents referenced in the Defendant The Dow Chemical Company's Answers to Plaintiffs' Interrogatories to Defendants (First Wave) dated February 13, 1981 which Dow has designated as "CONFIDENTIAL."

In accordance with paragraph 14 of the Confidentiality Order, Dow reserves its rights to prepare and distribute further notices of confidentiality and indexes as the need arises and to

NOTICE OF CONFIDENTIALITY AND
INDEX OF CONFIDENTIAL DOCUMENTS
OF THE DOW CHEMICAL COMPANY

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Bosscher, H EBB CBB BJC	
0201041 *	670529	Carlson, R Staeling, EC BJC	
0201042 *	670700	Dow	
0201043 *	670622	Woodward, EE	
0201044 *	670608	Bosscher, H	Barnes, EB
0201045 *	670608	Nummy, WR	Barnes, EB
0201046- 201048*	670526	Anderson, RE Baltusis, M	
0201049- 201050*	670531	Carlson, RG	Bosscher, H
0201051- 201052*	670531	Tacey, WU	Carlson, RG
0201053 *	660421	Beck, RH	Coppage, J
0201054 *	670526	Brauer, AR Wappenhensch, O	

Distributees

General Subject Matter

Expense authorization for
Tetrachlorobenzene expansion

Tetrachlorobenzene expansion

Economic summary for Tetra-
chlorobenzene expansion

Tetrachlorobenzene expansion

Bosscher, H
staehling, EC
Carlson, RG
Dixon, WR

Tetrachlorobenzene expansion

Tetrachlorobenzene project
scope summary

Tetrachlorobenzene expansion

Tetrachlorobenzene capacity

Streeter, LE

Manpower request

Tetrachlorobenzene expansion cost
estimate

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0201086 *	000000	Dow	
0201087	650000	W.C.T.	
0201088 *	651006	Hutchenreuther, C Goergen, GG Bosscher, H M.K. B.J.C.	
0201089- 0201090*	651021	Bosscher, H	Timm, WC
0201091 *	651020	Dixon, WR	Key, M
0201092 *	651011	Bosscher, H	Key, M
0201093 *	651027	Goergen, G	
0201094- 0201097*	651027	Wehn, WE	
0201098 *	650707	Goergen, G	
0201099- 0201101*	651021	Bosscher, H	Branch, CB

Distributees

staehling, EC
Lueck, AF
Bosscher, H
Putnam, MS
Goergen, GG

General Subject Matter

245-Trichlorophenol authorized
spent differences capital

New 245-Trichlorophenol (Dow Bd.
of Dir. authorization request
M-32063)

245-Trichlorophenol additional
funds

Review of Trichlorophenol job

Bosscher, H
Henske, JM
Pletcher, DE

Position on the Midland division
Trichlorophenol plant

New 245-Trichlorophenol plant
M-32063

245 Trichlorophenol plant

660000 Trichlorophenol plant cost
reduction

New Trichlorophenol plant

Key, M

Trichlorophenol authorization

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0201115 *	000000	H.A.S.	
0201116 *	650526	Churchman, JW	
0201117 *	650608	Bosscher, H	Branch, CB
0201118 *	650622	Henske, JM Doedens, JD	Branch, CB
0501285- 0501288*	701111	Hoerger, FD	USDA ARS
0501289- 0501291*	701110	Hoerger, FD	USDA ARS
0501292 *	700615	Gladstone, MM	Hoerger, FD
0501356- 501360*	651105	Dow	
0501415 *	660105	Dow	
0501418 *	660105	Dow	
0501659 *	691015	Turner, WF	
0501660- 0501668*	700629	Parsey, ES Van Horn, RL	

Distributees

General Subject Matter

245-Trichlorophenol new facility
(Dow Bd. of Dir. agenda)

245-Trichlorophenol new facility
economic summary

245-Trichlorophenol new
facilities

245-Trichlorophenol new
facilities

Brush Killer LV2-2

Brush killer LV2-2

Product registration

Brush killer LV 2-2 composition
statement

Brush killer X confidential state-
ment of formula

Brush killer X confidential
statement of formula

Registration of economic poisons

Butyl 400 evaluation

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Highhill, CA Hudberg, RN Loucks, MF Ouellette, FE Korsmeier, KB	
0504090- 0504093*	000000	Dow	
0504094 *	620521	Holdeman, GE	Gildart, CM
0504438 *	700619		
0504439- 0504447*	700519	Van Horn, RL Parsey, ES	
0505582 *	000000		
0525660- 0525661*	660427	Dow	
0526601 *	671030	Dow	
0526602- 0526603*	671030	Dow	
0526604- 0526605*	671030	Dow	

Distributees

General Subject Matter

Vanvalkenburg, JW

Information on inert ingredients
used in Dow pesticides

Carlisle base 5136
Carlisle chemical works

Esteron 99 concentrate, com-
position and raw materials

Esteron 99 concentrate - eva-
luation of revised formulation

Formula 40, ingredient statement

M-3060 specifications

Composition and raw materials
for Tordon 2S weed killer

Composition and raw materials for
Tordon 202 mixture

Composition and raw materials
for Tordon 212 mixture

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0526606- 0526607*	671030	Dow	
0526608- 0526612*	671103	Dow	
0538171- 0538172*	710114	Dow	
0538173 *	710114	Dow	
0538174 *	710114	Dow	
0538175 *	710114	Dow	
0538176 *	710114	Dow	
0538177 *	710114	Dow	
0538178 *	710114	Dow	
0538179 *	710114	Dow	
0538180 *	710114	Dow	
0538181 *	710114	Dow	
0538182 *	710114	Dow	
0554125- 0554176*	680613	Seidel, M Brown, M.	

Distributees

General subject Matter

Composition and raw materials
for Tordon 225 herbicide

Composition of formulations used
in experimental work for
registration

Brush killer LV 4T specifications

Brush killer T specifications

Brush killer TX specifications

Esteron 3-3 specifications

Esteron 245 specifications

Esteron 245 specifications

Esteron brush killer specifi-
cations

Reddon specifications

Tippon 2-2 specifications

Tippon T6 specifications

Veon 245 specifications

Bleiweiss, J
Beauchamp, R

A technological review of phenoxy
and Tordon formulation

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Highhill, C	

0706649- 0706659*	650518	Dow	
0724839- 0724844*	000000	Dow	
0724845- 0724872*	631104	Seidel, EM	

0724873- 0724885*	640309	Seidel, EM	
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General Subject Matter

Crummett, W
Deline, D
Delong, H
Dosser, R
Fernandez, J
Highhill, C
Hoff, D
Seidel, M
Schwark, J
Snodgrass, B
Woodward, D

245T plant operations course
P.O.C. 6020-Unit 13

General process description new
processes for 2,4-D, 2,4,5-T

Preliminary economics in alter-
nate 245T ester process

Chase, FI
Seidel, EM
Dosser, RC
Amstutz, FC
Dylewski, SW
Deline, DD
Delisle, NG
Croese, WL
Fernandez, JB
Sculati, JJ
Seidel, EM

Economic evaluation of alternate
245T ester process

Dosser, RC
Amstutz, FC
Dylewski, SW

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
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0724886- 0724892*	640104	Seidel, EM	
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0724963 *	000000	Dow	
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0725072- 0725075*	000000	Dow	
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0725076- 0725078*	000000	Dow	
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0725107- 0725112*	000000	Dow	
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0725134 *	000000	Chase, FI	
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0725135- 0725136*	660608	Dow	
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0725137- 0725144*	000000	Dow	
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0725145 *	000000	Dow	
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Deline, DD
Delisle, NG
Grose, WL
Highhill, CA
Fernandez, JB
Sculati, JJ
Chase, FI

General Subject Matter

Analysis of two processes for
producing phenoxy esters

245T process block flow chart

Direct ester operating
instructions

Transfer of raw materials to H, E
& C

Procedures

Switching pumps, instructions

Column flush

Operating instructions

Instructions

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725182- 0725183*	000000	Dow	
0725190- 0725191*	000000	Dow	
0725218- 0725224*	000000	T.A.G.	
0725503 *	640810	White, LC, Jr. DeLong, HC Highhill, CA Amstutz, FC Hudberg, RN Loucks, MF McCoy, WD Ouellette, FE Holdeman, GE	
0725504 *	640810	White, LC, Jr. DeLong, HC Highhill, CA Amstutz, FC Hudberg, RN Loucks, MF Corbin, WL Ouellette, FE Holdeman, GE	

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General Subject Matter

Instructions and procedures

Instructions, procedures

Direct Ester reaction information
489 Bldg. Dichlorophenol Dowanol

White, LC, Jr.
DeLong, HC
Highhill, CA
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WU
Ouellette, FE
Holdeman, GE
Scheddel, RT
Higgins, HS

Product specification for Veon 245

White, LC, Jr.
DeLong, HC
Highhill, CA
Amstutz, FC
Hudberg, RN
Loucks, MF
Corbin, WLN
Ouellette, FE
Holdeman, GE
Scheddel, RT
Higgins, HS

Product specification for Veon
brush killer

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725505 *	601101	Dosser, RC Highhill, CA Luce, EN Loucks, MF Nyman, FA Smith, HL Ouellette, FE	
0725508 *	660406	Highhill, CA White, LC, Jr. DeLong, HC Amstutz, FC Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725509 *	670413	Falkenstein, WJ Amstutz, FC Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725510 *	690227	Matuska, RJ Murphy, RW	

Distributees

Dosser, RC
Highhill, CA
Luce, EN
Loucks, MF
Nyman, FA
Smith, HL
Ouellette, FE

Highhill, CA
White, LC, Jr.
DeLong, HC
Amstutz, FC
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RP
Higgins, HS

Falkenstein, WJ
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RT
Higgins, HA
Richardson, HA
Skory, L
Brown, R

Matuska, RJ
Murphy, RW

General Subject Matter

Product specification for 245T
Amine weed killer

Product specifications for weed
killer LV4

Product specification for Verton
T

Product specification for Verton
4D

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Loucks, MF Fraser, JM Hawley, HM sheldon, HW Talcott, AT Holdeman, GE	
0725511 *	680416	White, LC Falkenstein, WJ Hawley, HM Corbin, WL Talcott, AT Holdeman, GE	
0725512 *	670708	Falkenstein, WJ Scoles, GW Amstutz, FC Hudberg, EN scheddel, RT Luce, EN McCoy, WJ Talcott, AT Holdeman, GE	
0725513 *	730223	Blosser, KC Gill, HH	

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General Subject Matter

Loucks, MF
Fraser, JM
Hawley, HM
Sheldon, HW
Talcott, AT
Holdeman, GE
McCoy, WJ

White, LC
Falkenstein, WJ
Hawley, HM
Corbin, WL
Talcott, AT
Holdeman, GE
Scheddel, RT
Reigler, PT

Product specification for Verton
2D

Falkenstein, WJ
Amstutz, FC
Hudberg, EN
Scheddel, RT
Luce, EN
McCoy, WJ
Talcott, AT
Holdeman, GE
Wiffin, EE
Richardson, HA
Skory, L
Brown, R
Butler, A

Product specification for Verton
CE

Blosser, KC
Gill, HH

Product specification for Dow
Butyl 400 24D weed killer

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Chase, FI Woodward, R Hoff, RC Fraser, JM Seymour, KG Hanson, KY Flannery, RF Talcott, AT Holdeman, GE	
0725514 *	630507	White, LC, Jr. DeLong, HC Highhill, CA Amstutz, FC Niehoff, BR Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, GE	
0725515 *	720316	Flannery, RF Seymour, KG Chase, FI Woodward, R Gill, HH Blosser, KC Hoff, RC Scoles, GW Talcott, AT Holdeman, GE	
0725516 *	630507	White, LC, Jr. DeLong, HC Highhill, CA	

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General Subject Matter

Chase, FI
Woodward, R
Hoff, RC
Frazer, JM
Seymour, KG
Hanson, KY
Flannery, RF
Talcott, AT
Holdeman, GE

White, LC, Jr.
Delong, HC
Highhill, CA
Amstutz, FC
Niehoff, BR
Loucks, MF
Ouellette, FE
Holdeman, GE

Product specification for Dow
Butyl 400

Flannery, RF
Seymour, KG
Chase, FT
Woodward, R
Gill, HH
Blosser, KC
Hoff, RC
Scoles, GW
Talcott, AT
Holdeman, GE

Product specification for lawn
weed killer

White, LC. Jr.
Delong, HC
Highhill, CA

Product specification for
Reddon

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Amstutz, FC Niehoff, BR Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, GE	
0725517 *	640213	White, LC, Jr. Delong, HC Highhill, CA Amstutz, FC Niehoff, BR Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, GE	
0725518 *	630415	Highhill, CA Amstutz, FC White, LC, Jr. Niehoff, BR Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, GE	
0725519 *	730822	Seymour, KG Blosser, KC Hodges, KL Chase, FI Woodward, R Hoff, RC	

Distributees

General Subject Matter

Amstutz, FC
Niehoff, BR
Loucks, MF
Ouellette, FE
Holdeman, GE

White, LC, Jr.
Delong, HC
Highhill, CA
Amstutz, FC
Niehoff, BR
Loucks, MF
Korsmeier, RB
Ouellette, FE
Holdeman, GE

Highhill, CA
Amstutz, FC
White, LC, Jr.
Niehoff, BR
Loucks, MF
Ouellette, FE
Holdeman, GE

Seymour, KG
Blosser, KC
Hodges, KL
Chase, FI
Woodward, R
Hoff, RC

Product specification for Tippon
2-2

Product specification for Tippon T4

Production specification for
Tippon T6 weed and brush killer

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Fraser, JM McCutchen, L Flannery, RF Talcott, AT Holdeman, GE	
0725522 *	690106	Dow	
0725523 *	690106	Dow	
0725524 *	660418	White, LC, Jr. Delong, HC Amstutz, FC Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725525 *	720218	Seymour, KG Chase, FI Flannery, MF Tait, SR Woodward, R Scoles, GW Hoff, RC Talcott, AT Flannery, RF Holdeman, GE	

Distributees

General Subject Matter

Fraser, JM
McCutchen, L
Flannery, RF
Talcott, AT
Holdeman, GE

suggested product specification
for brush killer T 334

suggested product specification
for brush killer 50-25

White, LC, Jr.
DeLong, HC
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RT
Higgins, HS

Product specification for brush
killer LV 4T

Seymour, KG
Chase, FI
Flannery, MF
Tait, SR
Woodward, R
Scoles, GW
Hoff, RC
Talcott, AT
Flannery, RF
Holdeman, GE

Product specification for brush
killer LV 2-2

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725526 *	660418	White, LC, Jr. Delong, HC Amstutz, FC Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725527 *	651007	Dow	
0725528 *	630424	Delong, HC Highhill, CA Amstutz, FC White, LC, Jr. Hoff, RC Loucks, MF Korsmeier, RB Ouellette, FE	
0725529 *	721013	Flannery, RF Blosser, KC Gill, HH Chase, FI Woodward, R Hoff, RC Fraser, JM Talcott, AT Holdeman, GE	

Distributees

White, LC, Jr.
Delong, HC
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RT
Higgins, HS

General Subject Matter

Product specification for brush
killer LV 2-2

Product specification for brush
killer Lv 2-2

Delong, HC
Highhill, CA
Amstutz, FC
White, LC, Jr.
Hoff, RC
Loucks, MF
Ouellette, FE
Holdeman, FE

Product specification for Esteron
brush killer OS

Flannery, RF
Blosser, KC
Gill, HH
Chase, FI
Woodward, R
Hoff, RC
Fraser, JM
Talcott, AT
Holdeman, GE

Product specification for Reddon

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725530 *	630424	Delong, HC Highhill, CA Amstutz, FC White, LC, Jr. Hoff, RC Loucks, MF Korsmeier, RB Ouellette, FE	
0725531 *	720108	Flannery, RF Seymour, KG Loucks, MF Tait, SR Chase, FI Woodward, R. Hoff, RC Scoles, GW Talcott, AT Holdeman, GE	
0725532 *	601004	Dosser, RC Delong, HC Loucks, MF Luce, EN Nyman, FA Smith, HL Ouellette, FE	
0725533 *	650125	Dow	
0725534 *	640612	White, LC, Jr. Delong, HC	

Distributees

Delong, HC
Highhill, CA
Amstutz, FC
White, LC, Jr.
Hoff, RC
Loucks, MF
Ouellette, FE
Holdeman, GE

Flannery, RF
Seymour, KG
Loucks, MF
Tait, SR
Chase, FI
Woodward, R
Hoff, RC
Scoles, GW
Talcott, AT
Holdeman, GE

Dosser, RC
Delong, HC
Loucks, MF
Luce, EN
Nyman, FA
Smith, HL
Ouellette, FE

White, LC, Jr.
Delong, HC

General subject Matter

Product specification for Esteron
Ten-Ten

Product specification for Esteron
44 weed killer

Product specification for Esteron
44

Suggested product specification
for Esteron 47

Product specification for Esteron
67-33 OS

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Highhill, CA Amstutz, FC Hudberg, RN Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, GE	
0725535 *	660721	White, LC, Jr. Delong, HC Highhill, CA Deline, DD Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725536 *	681118	Highhill, CA Woodward, RE Hawley, HM Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725537 *	710317	Seymour, KG Chase, FI Loucks, MF Reigler, PF Woodward, R	

95056

Distributees

General Subject Matter

Hudberg, RN
Loucks, MF
Korsmeier, RB
Ouellette, FE
Holdeman, GE
Higgins, HS
Scheddel, RT

White, LC, Jr.
Delong, HC
Highhill, CA
Deline, DD
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RT
Higgins, HS

Product specification for Esteron
76E

Highhill, CA
Woodward, RE
Hawley, HM
Talcott, AT

Product specification for Esteron
76BE

Seymour, KG
Chase, FI
Loucks, MF
Reigler, PF
Woodward, R

Product specification for Esteron
76E herbicide

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Hawley, HM Talcott, AT MacDonald, LA Holdeman, GE	
0725538 *	630424	Delong, HC Highhill, CA Amstutz, FC White, LC, Jr. Hoff, RC Loucks, MF Korsmeier, RB Ouellette, FE Holdeman, FE	
0725539 *	670717	Highhill, CA White, LC Deline, DD Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725540 *	670214	White, LC Delong, HC Highhill, CA	

Distributees

General Subject Matter

Hawley, HM
Talcott, AT
MacDonald, LA
Holdeman, GE

Delong, HC
Highhill, CA
Amstutz, FC
White, LC, Jr.
Hoff, RC
Loucks, MF
Ouellette, FE
Holdeman, GE

Product specification for Esteron 99

Highhill, CA
White, LC
Deline, DD
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Higgins, HS
Scheddel, RT
Wiffen, EE
Richardson, HA
Skory, LK
Brown, R
Butler, A

Product specification for Esteron 99
concentrate

White, LC
Delong, HC
Highhill, CA

Product specification for Esteron
245 OS

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
-------------------	-------------	---------------	------------------

Deline, DD
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE

0725541 *

630507

White, LC, Jr.
Delong, HC
Highhill, CA
Amstutz, FC
Niehoff, BR
Loucks, MF
Korsmeier, RB
Ouellette, FE
Holdeman, GE

0725542

641019

White, LC, Jr.
Delong, HC
Highhill, CA
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WJ
Ouellette, FE
Holdeman, GE

8906

Distributees

General Subject Matter

Deline, DD
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Higgins, HS
Scheddel, RL
Richardson, HA
Skory, L
Brown, R

White, LC, Jr.
Delong, HC
Highhill, CA
Amstutz, FC
Niehoff, BR
Loucks, MF
Ouellette, FE
Holdeman, GE

Product specification for Esteron
245 concentrate

White, LC, Jr.
Delong, HC
Highhill, CA
Hudberg, RN
Loucks, MF
McCoy, WJ
Holdeman, FE
Scheddel, RT
Higgins, HS

Product specification for Esteron
600

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725543	610906	Vanvalkenburg, W White, LC, Jr. Delong, HC Luce, EN Loucks, MF Nyman, FA Smith, HL Ouellette, FE	
0725544 *	660121	White, LC, Jr. Delong, HC Highhill, CA Amstutz, FC Hudberg, RN Loucks, MF McCoy, WJ Talcott, AT Holdeman, GE	
0725546 *	571226	Watson, G	
0725547 *	620104	Scoles, GW	
0725548 *	690219	Vanhorn, R	
0725549 *	620213	Scoles, G	

Distributees

Vanvalkenburg, W
White, LC, Jr.
DeLong, HC
Luce, EN
Loucks, MF
Nyman, FA
Smith, HL
Ouellette, FE

White, LC, Jr.
DeLong, HC
Highhill, CA
Amstutz, FC
Hudberg, RN
Loucks, MF
McCoy, WJ
Talcott, AT
Holdeman, GE
Scheddel, RT
Higgins, HS

General Subject Matter

Product specification for Esteron
seventy

Product specification for Esteron
6E

Production specification Brush
Killer 21

Production specification Brush
Killer 50-50

Brush Killer T production
specification

Brush Killer TX production
specification

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725550 *	620213	Scoles, G	
0725551 *	650809	Vanhorn, R	
0725555 *	610928	Scoles, G	
0725558 *	661011	Vanhorn, R	
0725773- 0725777*	660602	Mate, B	
0725871- 0725881*	000000	Dow	
0725903 *	000000	Dow	
0725904 *	000000	Dow	
0725905 *	000000	Dow	
0725906 *	000000	Dow	
0725907 *	000000	Dow	
0725908 *	000000	Dow	

Distributees

General Subject Matter

Brush Killer X production
specification

Esteron T2 production specification

Clover Killer (discontinued) pro-
duction specification

Verton 2 (not released) production
specification

Coulter, KE
Haberstroh, WH
Robertson, RW

24D product study

Safe work procedure Tordon 225E

Tordon production charges

Tordon 101 batch calculations and
adjustments

Tordon 212 batch calculations and
adjustments

Tordon 2696 batch calculations and
adjustments

Tordon K salt and Tordon 22K batch
calculations and adjustments

Tordon 155 batch calculations and
adjustments

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0725909 *	000000	Dow	
0725910 *	000000	Dow	
0725911 *	000000	Dow	
0725912 *	000000	Dow	
0725915 *	000000	Dow	
0725917- 0725920*	000000	Dow	
0725940 *	700414	Dow	
0725954- 0725960*	690612	Dow	
0725961- 0725963*	700921		
0725977	720218	Dow	
0726026- 0726036*	000000	Dow	
0726037 *	701020	Dow	
0746427- 0746472*	670109	Johnson, RL Widiger, AH	

Distributees

General Subject Matter

Tordon 472 batch calculations and adjustments

Tordon 40 batch calculations and adjustments

Loading TIPA Tordon concentrate

Tordon formulations

Tordon formulations

Tordon 22K batch 810713

Tordon 225 product specification

Tordon 225 formulation

Description of process for production of Tordon 225

245T production specification

Formulating instructions for Tordon 472

Tordon brush killer 520 production and sales specifications

Johnson, RL
Widiger, H

Thermal decomposition of dry sodium salts of chlorinated phenates

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0746430- 0746447*	650804	Wagoner, EJ Cobler, JG	Widiger, A Johnson, RL
0747126- 0747128*	640730	Holmes, R	Hoyle, HR
0766848- 0766849*	690320	Norris, JM Torkelson, TR Hoyle, HR	
0766850 *	560524	Peterson, JE HRH	
0766851- 0766852*	690320	JMN H	
0767402- 0767416*	590818	Olson, KJ Oyen, F KS Hoyle, HR	

Distributees

General Subject Matter

Bender, S
Bailey, C
Silverstein, L
Cobler, J
Haberstroh, W
Sauers, R

Differential thermal analysis of
various chlorophenols

Trichlorophenol manufacture

M-3401 Brush Killer (data sheet of
properties, health hazards, and
precautions for safe handling of
materials)

Brush Killer

M-3401 Brush Killer (safety
information)

Barrons, KC
Colby, RW
Lynn, GE
Boundy, RH
McIntyre, HH
Perkins, RP
Hart, A
Wright, N
Hammer, OH
Hymas, TA

Results of range finding toxicological tests on M1413, formulation of Dowanol Ester 245T made for Stull Chem. Data sheet of properties, health hazards and precautions for safe handling of materials

Dow Number

Date

Author

Recipient

0768087-
0768103*

611108

Olson, K
Oyen, F
Hoyle, HR
KS
Scoles, GW
Tompson, E

0768236-
0768254*

620403

Olsen, KJ
Oyen, F
Vanvalkenburg, W

3063

Distributees

General Subject Matter

Jones, GD
 Gay, HH
 Tisdale, WL
 Luce, EN
 Green, LM
 Stenger, LM
 Scoles, G
 Gray, HE
 Kilial, DJ
 Elshere, D
 Kagy, JF

Boundy, RH
 McIntyre, HH
 Perkins, RP
 Hart, A
 Jones, GD
 Scoles, G
 Gay, HH
 Tisdale, WL
 Luce, EN
 Greene, LM
 Shrader, SA
 Falkenstein, W
 Elshere, D
 Kagy, JF
 Barrons, KC
 Colby, RW
 Kilian, DJ
 Lynn, GE

Results of range finding toxicological tests on agricultural chemical formulation M-2016 containing 35 percent Dowanol Ester 245T. Material safety data sheet

Boundy, RK
 McIntyre, HH
 Perkins, RP

Results of tox. tests on 24D + 245T dowanol esters in kerosene

Dow Number

Date

Author

Recipient

0768240-
768241*

620323

Olsen, KJ
Oyen, F
Hoyle, HR

4906

Distributees

General Subject Matter

Hart, A
 Wright, N
 Lynn, GE
 Jones, GD
 Barrons, K
 Vanvalkenburg, V
 Brown, R
 Gay, HH
 Wilson, AW
 Luce, EN
 Greene, LM
 Shrader, SA
 Falkenstein, WJ
 Nash, HA
 Colby, RN
 Kilian, DJ
 Elshere, D
 Kagy, JF

Boundy, RH
 McIntyre, HH
 Perkins, RP
 Hart, A
 Wright, N
 Lynn, GE
 Jones, GD
 Barrons, H
 Vanvalkenburg, V
 Brown, R
 Gay, HH
 Wilson, AW
 Luce, EN
 Greene, LM

Data sheet for M2235

Dow Number

Date

Author

Recipient

0768243-
768244*

611108

Vanvalkenburg, W Olson, KJ

0768262-
0768263*

620323

Olson, KJ
Oxen, F
Hoyle, HR

Distributees

General Subject Matter

Shrader, SA
Falkenstein, WJ
Nash, HA
Colby, RW
Kilian, DJ
Elshere, D
Kagy, JF

Cover letter with sample of M-2235
for testing

Johnson, JE
Boundy, RK
McIntyre, HH
Perkins, RP
Hart, A
Wright, N
Lynn, GE
Jones, GD
Barrons, K
Vanvalkenburg, V
Brown, R
Gay, HH
Wilson, AW
Luce, EN
Greene, SA
Falkenstein, WJ
Nash, HA
Colby, RN
Kilian, DJ
Elshere, D
Kagy, JF

M-2235 (data sheet of properties,
health hazards, and precautions for
safe handling of materials)

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0768264 *	620300	Dow	
0768268- 0768269*	720416	Wolf, MA Hoyle, HR	
0768270- 0768271*	720413	Wolf, MA	
0768961- 768962*	610601	Olson, KJ Oyen, F Hoyle, HR	
0768963- 768964*	580630	Wolf, MA McCollister, DD Hoyle, HR	
0768965- 768966*	610531	Dow	
0890394- 0980398*	000000	Dow	
0979033- 0979047*	691215	Bailey, RE	

Distributees

General Subject Matter

M-2235 (safety information)

Verton CE (data sheet of properties, health, hazards, and precautions for safe handling of materials)

Verton CE (medical information)

Safety data sheet for Esteron 245 OS

Safety data sheet for Reddon concentrate (M-2157)

Safety data information on Esteron 245 OS

General process description, 24D process

Blair, EH
Fernandez, JB
Johnson, JE
Moss, RD
Chamberlain, LC
Peterson, LI
Strojny, EJ
Tobey, SW

Miniplant preparation of 2,4-D and 2,4,5-T

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0979188- 0979210*	680000	Dow	
0979411- 0979416*	670828	Seidel, EM	
0979429- 0979430*	670906	Tacy, W	
0979686 *	670915	Seidel, EM	
0979732 *	670914	E.M.S.	
0979733*	670914	E.M.S. W.H.H.	
0979737 *	670914	E.M.S.	

Distributees

Hillary, BB
Rehurg, CE
Moyer, JR
Pumpelly, CT
Poffenberger, N
Haberstroh, WH
Deline, DD
Ayers, JE
Woodward, RE
Jones, GD
Blue, RD
Vanwestenburg, JA

General Subject Matter

Historical overview of chloracne experiences, includes process information

Agent Orange related costs and capacity

Process flow chart with recommended raw material unit ratios for Orange

Flow chart with costs and capacity for making Agent Orange

Trichlorophenol plant unit ratios

Dichlorophenol plant unit ratios

Butyl ester 24D plant unit ratios

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0979738 *	670914	E.M.S.	
0979883- 0979884*	000000	Dow	
0979885 *	670311	Delisle, NG	
0979886- 0979887*	670829	Delisle, NG	
0979927- 0979934*	670411	Delisle, NG	
0979935 *	670427	Delisle, NG	
0980024 *	670130	Jossi, JA	
0980085- 0980086*	661227	Gilbert, PW	
0980089 *	670130	E.M.S. G.T.G.	
0980178- 0980188	690307	Wen, RY	

Distributees

General Subject Matter

Butyl ester 245T plant unit ratios

Process flow chart indicating costs and capacity for Agent Orange production

Process flow chart indicating costs and capacity for Agent Orange production

Process flow chart indicating costs and capacity for Agent Orange production

Agent Orange production flow charts showing capacities

Chart showing capacity and costs for Agent Orange production

Orange 24Dichlorophenol block flow sheet

245-Trichlorophenol block flow chart

Ester production product Orange

Look, AT
Sheetz, DP
Pumpelly, CT

Manufacture of 24D, 245T and 2,4,5-Trichlorophenoxypropionic Acid: a literature survey

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
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0980320- 0980341*	660121	Amstutz, FC Highhill, CA Kosinski, JE Delong, HC	
0980971 *	000000	Dow	
0980994- 0981006*	750000	Dow	
0981012- 0981024*	691030	Dow	
0981025- 0981030*	000000	Dow	
0981031- 0981036*	691022	Haberstroh, WH	

Distributees

Hennis, HE
Thompson, CJ
DeMott, DN
McGee, TW
Fernandez, JB
Lindy, L
Molehouse, D
Wisner, R
Wen, RY
DeLine, DD
Woodward, RE
Seidel, EM
Thurston, DH
Kellom, DB

General Subject Matter

Dow customer - Weed killer for-
mulating plant

Mexico Phenoxy Ester process flow
chart
Cost data, process information

Technology review

Flow chart for 2,4-D process

Projected book costs to 1977 (Dow
and 2,4-D) 1969 accomplishments
and goals, 1970 G & P

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0981364 *	000000	Dow	
0981366- 0981372	620227	Fernandez, JB	
0981474 *	711209	Hoff, RC Williams, CS Chase, FI Woodward, R Blosser, KC Scoles, GW 2 Illegible	
0981484	690227	White, LC DeLong, HC Chase, FI Loucks, MF Hawley, HM Sheldon, HW Talcott, AT Holdeman, GE	
0981538 *	701005	Chase, FI Loucks, MF Tait, SR Woodward, RE Holdeman, GE Hawley, AM	

Distributees

Doser, RC
Prescott, RF
Sculati, JJ
Hillary, BB
Johnson, D
Highhill, CA

Hoff, RC
Williams, CJ
Chase, FI
Woodward, R.
Blosser, KC
Scoles, GW
2 Illegible

White, LC
DeLong, HC
Chase, FI
Loucks, MF
Scheddel, RT
Sheldon, HW
Talcott, AT
Holdeman, GE
Reigler, PF
McCoy, WJ

Chase, FI
Loucks, MF
Tait, JR
Woodward, RE
Holdeman, GE
Hawley, HM

General Subject Matter

Unit ratios: #/# of product

The preparation of Esters of
Phenoxy Acetic Acid

Brush killer, LV4T, M3508, pro-
duct specification, 12662

24D, Butyl-Isopropyl Esters,
50-50 mix

Esteron Ten-Ten, M3503, export
only

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Seymour, KG Talcott, AT MacDonald, LA	
0981590	690227	Williams, JL Loucks, MF Stobby, GE White, LC Hawley, HM Sheldon, HW Talcott, AT Holdeman, GE	
0981591	671011	Hawley, HM Sculati, JJ White, LC	
0981596	690227	Williams, JL Loucks, MF Stobby, GE White, LC Hawley, HM Sheldon, HW Talcott, AT Holdeman, GE	
0981597	671011	White, LC Sculati, JJ Hawley, HM	

Distributees

Seymour, KG
Talcott, AT
MacDonald, LA

Williams, JL
Loucks, MF
Stobby, GE
White, LC
Hawley, HM
Sheldon, HW
Talcott, AT
Holdeman, GE
Reigler, PF
Scheddel, RT

General Subject Matter

245T - product specification -
P87523

245T - raw material specification

Williams, JL
Loucks, MF
Stobby, GE
White, LC
Hawley, HM
Sheldon, HW
Talcott, AT
Holdeman, GE
Reigler, PF
Scheddel, RT

245T - product specification -
P87523

245T - raw material specification

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
0981617- 0981620	680207	Kubiak, CJ	
0981895 *	690227	VanHorn, R	
0981896	671011	White, LC Sculati, JJ Hawley, HM	
0981899	671011	White, LC Sculati, JJ Hawley, HM	
0981900	690227	Williams, JL Loucks, MF Stobby, GE White, LC Hawley, HM Sheldon, HW Talcott, AT Holdeman, GE	
0981901	710316	Gill, HH Reigler, PF Loucks, MF Tait, SR Chase, FI Woodward, RE Hawley, HM Hoff, RC	

Distributees

General Subject Matter

245T - Butyl Esters - analytical
method - 87554A

M-3393 - 2nd revision

245T - raw material specification

245T - raw material specification

Williams, JL
Loucks, MF
Stobby, GE
White, LC
Hawley, HM
Sheldon, HW
Talcott, AT
Holdeman, GE
Reigler, PF
Scheddel, RT
McCoy, WT

245T - product specification

Gill, HH
Reigler, PF
Loucks, MF
Tait, SR
Chase, FI
Woodward, RE
Hawley, HM
Hoff, RC

245T, Butyl Esters production
specification

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Talcott, AT MacDonald, L Holdeman, GE	
1119499- 1119500	670317	DeLong, HC White, LC Hawley, HM	
1119943- 1119944*	670420	Dow	
1119947- 1119952*	670417	Dow	Nummy, WR
1119953- 1119960*	670410	Dow	
1119961- 1119968*	670419	Dow	

Distributees

General Subject Matter

Talcott, AT
MacDonald, L
Holdeman, GE

N-Butyl 2,4,5-Trichlorophenoxy-
acetate raw material specifica-
tion

Staehling, EC
Kennett, WW
Putnam, MS

Agent Orange proposal listing
capacity of non-herbicide product

Pletcher, DE
Bosscher, H
Timm, WC
Coulter, KE
Tacey, WJ
Hensley, EF
Gunkler, AA
Kennett, WW
Deline, DD
Goergen, GG
Carlson, RG
Bender, SL
Putnam, MS

Orange information for development
of reply to H.G. Fredricks letter
dated 670331

Costs and capacity information
about Agent Orange

Costs, capacity and technical
information about the proposed
production of Agent Orange

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1119969 *	000000	Dow	
1119990- 1119991*	660614	McCoy, WJ	Bryant, CA
1120090- 1120092*	671220	Heath, WO	Koster, W
1124150- 1124160*	650302	Cornell, JL Anderson, RE	
119595- 119599*	650315	Anderson, RE Delisle, NG	

Distributees

General Subject Matter

Nielsen, WH
Staehling, EC
Putnam, MS
Vanarsdale, JD

Tetrachlorobenzene capacity
information

Van Arsdale, JD
Gill, WM
Hanson, KY

245T capabilities

245-T capacity

Coulter, KE
Dylewski, SW
Goergen, GG
Haberstroh, WH
Lueck, AF
Poffenberger, N
Sauers, RC
Trapp, WB
Wappenhensch, O
West, KD
Wehn, WE
Widiger, AH
Graves, HE
Wolf, RR
Delisle, NG
Hutchenreuther, C
Morello, VS
Beyer, DG
Harris, JS

Project conference 14 million
pounds per year.
Trichlorophenol plant
Job 50175

Coulter, KE
Graves, HE

Trichlorophenol plant scope of
project

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
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127397-
1127398

641208

Johnson, D

1284728-
1284733

650622

Tiffany, PA
Gill, HH

128766 *

000000

Dow

1288153-
1288155*

700130

Ridner, JM
Williams, CS
Loucks, MF

Distributees

Wolf, RR
Goergen, GG
Lueck, A
Dylewski, S
Trapp, W
Sauers, R
Poffenberger, N
Hutchenreuther, CO
Wappenhensch, CA
Morello, VS
Wehn, WR

General Subject Matter

Denisik, R
Hay, JM
Hillary, BB
LeSueur, RW
Maunder, WG
Morrison, JA
Mulholland, RS
Smart, JL
Smy, KG
Sundberg, FA
Veach, RH
Young, DM

Condensation of Butyl
Dichloroacetate with Sodium
24-Dichlorophenate

Analytical method for determination
of TCDD in 2,4,5-T by GLC

Block flow H₂O form. Tordon

Tordon 225 - Release to Sales

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Wolf, MA Seymour, KG Bjork, C Talcott, AT Lynn, GE Stein, JS Newport, JJ Nagele, RE Howell, JH Williams, R 1 Illegible	
1288420- 1288422*	660218	Saunders, E Loucks, MF Wolf, MR Van Valkenberg, W J.R.B. Sachs, SB Lynn, GE Branuman, J Gill, WM Highhill, CA Amstutz, FC Wiltse, ML Illegible	
1288423 *	660218	Van Valkenburg, W	
1294043*	000000	Dow	
1298263- 1298290*	670000	Dow	

Distributees

General Subject Matter

Tordon 105 - Release to sales

Memo - Release to Sales-Tordon 105

Block flow sheet Tordon Ester
form

Direct nuclear chlorination of
phenoxyacetic acid, benzene
research lab

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1298570 *	000000	Dow	
1298598 *	000000	Dow	
1298726 *	000000	Dow	
1299165- 1299169*	000000	Dow	
1299256- 1299265*	000000	Dow	
1299267- 1299270*	000000	Dow	
1548662- 1548663*	610124	Strand, D HRH LGS	
1549497- 1549536*	501214	Delisle, NG Strand, D LGS Prior, CA Teal, JL Brittos, WW Arnold, JB DeLong, HC Pott, S	

Distributees

General Subject Matter

Formulating instructions for
Tordon 155, 40, 472

Formulations - special for-
mulations area

Chloro-Pyridines dept.

Formulations, special formulations
area

Tordon operations manual

TIPA and TIPA 2D storage and
transfer from 489 building

Oil formulations

24D process

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
		Highhill, CA Brown, M	
1549641- 1549693*	700410	Axe, FD Hoyle, HR	
1550150 *	710202	Olson, RD Axe, FE Hoyle, HR	
1550401- 1550407*	690930	Mutcher, JE	Tree, RM Plepys, RA Bailey, CE Kramer, CG Morse, DB stehl, RH Seidel, EM Rowe, VK Snyder, RE Axe, FD

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Lynn, GE
Deline, DD
Schmidtke, DJ
Hodson, RE
Miller, DE
Kramer, CG
Holder, BB
Morse, DB
Rowe, VK
Soule, RD

Industrial hygiene survey of 245T

Murray, N
Deline, DD
Tree, RM
Bailey, CZ
Seidel, EM
Snyder, RE
Holder, BB
Silverstein, LG

Summary of environmental conditions in dowicides plant

Dowicide plant environmental control task force minutes

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1550424- 1550441*	650716	Dow	
1550444	000000	Dow	
1550445	580807	Bradford, R	
1550446	580805	Bradford, R	
1550447	580808	Bradford, R	
1550448	580806	Bradford, R	
1550449	581015	Synder, RE	
1550455	651007	Krohn, L	
1550456	651007	Krohn, L	
1550457	651007	Krohn, L	
1550458	651007	Krohn, L	
1550459	651006	Krohn, L	
1550460	651007	Krohn, L	
1550464 *	000000	Dow	
1550550	580807	Bradford, R	

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Dowicides - industrial hygiene
job analysis

Flowchart of production of
Dowicides

Flowchart - Dowicide B

Flowchart - Dowicide P

Flowchart - Scrubber and Trap
Phenol

Flowchart - Monochlorophenol
crude production

Flowchart - Monochlorophenol

Flowchart - Dowicide 6

Flowchart - Dowicide 6

Flowchart - Orthochlorophenol

Flowchart - Dichlorophenol

Flowchart - Dowicide 2

Flowchart - Dowicide DPM

Schematic diagram of 265 Bldg.
processes

Flowchart - Dowicide 1

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1550551	580807	Bradford, R	
1550552 *	580805	Bradford, R	
1550553	580805	Bradford, R Mutchler, J	
1550554 *	651006	Krohn, L	
1550577- 1550579	580807	Bradford, R	
1556945 *	000000		
1558517 *	671027	Fairey, BP	
1558517 *	670607	Chang, KY Fernandez, JB	
1558518- 1558518A*	790316	Krumel, KL Arnold, RF Howard, AC First, KE Owen, PW	

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Flowchart - Dowicide 2S

Flowchart - Dowicide 6

Flowchart - Dowicide 6

Flowchart - Dowicide 7

Dowicide B process

Notes on Fort Saskatchewan D
process, Hooker TCP and Hercules
MCAA

Laboratory preparation of 24D

Laboratory preparation of 24D

Bumb, RR
Johnson, SR
Pruitt, ME
Ward, WH
Williams, CS
Maddox, JF
Owen, PW
May, VT
McGregor, SD
Williams, AJ
Tobey, SW

High yield aqueous 24D process
a study of the modified Brazil
process.

Dow Number

Date

Author

Recipient

1558519-
1558520

750101

Mintz, MJ
Brust, HF

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Bohnert, TJ
 Morehouse, DS
 Buzzelli, DT
 Haberstroh, WH
 Woodward, RE
 Humbert, D
 Westover, LB
 Jewett, G
 Kleidon, D
 Fothergill, W
 Valcore, D
 Mendoza, C
 Hormel, T
 Kennedy, TL
 Aerstin, FG
 Manfrom, R
 Schloemann, P
 Bleiweiss, J
 Giebelhaus, L
 Dasilva, AA

Blair, EH
 Hein, ND
 Karwal, JH
 Leng, ML
 Mintz, MJ
 Moss, RD
 Pruitt, ME
 Sheetz, DP
 Theis, JM
 Brust, HF
 Morehouse, DS
 Dhingra, YR

Thermal decomposition rate of
 bis (24 dichlorophenyl)
 acetal of glyoxylic acid (BIS
 24D) present in 24D

Dow Number

Date

Author

Recipient

1558521-
1558522*

810204

Krumel, KL
Arnold, RF
McGregor, SD

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Messing, SH
Aerstin, FG
Yeager, LM
Bleiweiss, JC
Kennedy, TL
Haberstroh, WH
McCoy, CE
Woodward, RE
Lafevor, DR
Skelly, NE
Robbins, LA
Little, DW
Kern, WG
Hoffman, RL
Werling, CL
Mirsky, MJ
Jones, WO
Swogger, KW
Chase, FI
Carlson, RG
Osborne, DW

Gledhill, JR
Sheetz, DP
McGregor, SD
May, VT
Muench, WC
Williams, A
Tobey, S.
Buzzelli, DT
Woodward, RE
Haberstroh, WH
Gorgacz, S

The continuous preparation of
24D and 2-methly-4-chloro-
phenoxyacetic acid (MCPA)

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1559777 *	671102	Seidel, EM	
1559781- 1559786*	000000	T.A.G.	
1559787- 1559788*	640625	Seidel, EM	
1559789 *	640625	Seidel, EM	
1559790 *	640625	Seidel, EM	
1559791- 1559797*	640618	E.M.S.	
1559798- 1559799*	650118	E.M.S.	
1559800 *	650118	Seidel, EM	
1559801- 1559806*	000000	Dow	

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Hormel, T
Moser, J
Yocum, R
Downs, T
Veurink, G
Westover, W
Pierzinski, B
Dersnah, BE

General Subject Matter

245T process

Direct Ester reaction information
489 bldg. Dichlorophenol Dowanol

Material balance considerations

24D Ester (unit ratios)

245T Ester unit ratios material
balance

Utilities, DE

Utility requirements 489

Utility requirements 260 Bldg. -
Direct Ester

General process description
Direct Ester process

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1560178- 1560214*	681017	Seidel, EM Gilbert, PW Dunlap, RL	
1560215- 1560237*	681017	Seidel, EM Gilbert, PW Dunlap, RL	
1560238- 1560241*	681111	Seidel, EM Gilbert, PW Dunlap, RL	

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Seidel, EM
Gilbert, PW
Dunlap, RL
Bleiweiss, J
Chase, FI
Deline, DD
DeLong, HC
Jossi, JA
Rogers, JP
Schwark, GJ
Williams, JL
Woodward, RE
Fernandez, JB

General Subject Matter

Technical report with information
about 24D and 245T processes,
costs, capacity and equipment

Seidel, EM
Gilbert, PW
Dunlap, RL
Bleiweiss, J
Chase, FI
Deline, DD
DeLong, HC
Jossi, JA
Rogers, JP
Schwark, GJ
Williams, JL
Woodward, RE
Fernandez, JB

Technical report with information
about 24D and 245T processes,
costs, capacity, plant design and
equipment

Seidel, EM
Gilbert, PW
Dunlap, RL
Bleiweiss, J
Chase, FI

Technical report with information
about 24D and 245T processes,
capacity, plant design and
equipment

Dow Number

Date

Author

Recipient

1560242-
1560265*

681111

Seidel, EM
Gilbert, PW
Dunlap, RL

1560266 *

670109

Johnson, RL
Widiger, AH

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Deline, DD
 Delong, HC
 Jossi, JA
 Rogers, JP
 Schwark, GJ
 Williams, JL
 Woodward, RE
 Fernandez, JB

Seidel, EM
 Gilbert, PW
 Dunlap, RL
 Bleiweiss, J
 Chase, FI
 Deline, DD
 Delong, HC
 Jossi, JA
 Rogers, JP
 Schwark, GJ
 Williams, JL
 Woodward, RE
 Fernandez, JB

Process information and operating
 procedures for 24D Esters

Johnson, RL
 Widiger, AH
 Bender, S
 Bailey, C
 Silverstein, L
 Cobler, J
 Haberstroh, WH
 Sauers, R

Summary of laboratory research on
 temperature control of processes
 related to 24D and 245T formation

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1560539 *	600324	Delong, HC	
1560540 *	491200	Dow	
1560542 *	690722	McKnight, FW	
1560548 *	000000	Kosinski, JE	
1560549 *	000000	Kosinski, JE	
1560550 *	000000	Kosinski, JE	
1560714 *	510228		
1560951- 1561000*	680826	Fernandez, JB Seidel, M Brown, M Highhill, C	

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Safety precautions

24D Amine weed killer hazards and precautions

Block flow diagram of Amine formulations

Unit ratios Amine formulation

Cycle times formulating

Cycle times packaging

Raw material specification L2-0-3

Technology review phenoxy & Tor-don formulations

Hoff, RC
Bleiweiss, J
Beauchamp, R
Deline, DD
DeLong, H
Dosser, R
Schwark, J
Snodgrass, B
Woodward, D

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1561307- 1561310*	670329	GMS	
1561311 *	670118	Hartenstein	
1561312 *	670419		
1561343- 1561346*	670316	Hartenstein, P	Sculati, JJ
1561353- 1561375*	681114	Jossi, JA Seidel, EM Williams, JL	
1561376- 1561397*	681114	Seidel, EM Williams, JL Jossi, JA	

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245T process

245T process

245T material balance

245T centrifuge installation

Deline, DD
Kearney, JK
Delisle, NG

245T, 245T Esters and for-
mulations of Esters technology
review

Chase, F
Jossi, JA
Bleiweiss, J
Haberstroh, W
Williams, L
Marshall, S
Rodgers, J
Schwark, G,
Seidel, M
Snodgrass, W
Woodward, RE
Delisle, NG
Fernandez, JB
Deline, DD

Silvex acid, Dowanol Ester of
Silvex and Isooctyl Ester of
Silvex technology review

Williams, L
Marshall, S
Rodgers, J
Schwark, G

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1561695- 1561698*	690417	Dow	
1561699- 1561700*	690413	Wyant, G Brown, M	Charlie
1561701 *	690709	CAH	
1561702 *	690319	Highhill, CA	Chase, FI
1561703- 1561705*	690417	Dow	
1561706- 1561707*	670700	Dow	
1562341- 1562397*	680711	Delise, NG Schmidtke, DJ Deline, DD	

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Seidel, M
Snodgrass, W
Woodward, RE
Delisle, NG
Fernandez, JB
Deline, DD
Chase, F
Jossi, JA
Bleiweiss, J
Haberstroh, W

Veon 245 process

Veon formulations

245T formulation Australia

24D products

Veon 245 process

Esteron brush killer O.S., label &
production specification

Fernandez, JB
Bleiweiss, JC
Goergen, GC
Haberstroh, WH
Pumpelly, CT
Rogers, JP

245T technology review

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1562343 *	681024	Delisle, NG	Bleiweiss, JC Pumpelly, CT Deline, DD Rogers, JP Fernandez, JB Schmidtke, DJ Goergen, GG Schwark, GJ Widiger, AH
1562365- 1562383	650000	Harris, JS West, KD Passmore, L Knopp, DO McClure Owens, B Anderson, RE Cornell, JL	
1562386 *	661212	Johnson, RL	
1562694- 1562695*	000000	Dow	
1562696- 1562697*	000000	Dow	

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Schwark, GJ
Widiger, AH

General Subject Matter

Corrections for Trichlorophenol
technology review

Trichlorophenol plant

Alcholic caustic hydrolysis of
Tetrachlorobenzene

Block flow H₂O from Tordon

Tordon 10K pellets process

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1564233- 1564240	700209	Schmidtke, DJ	
15672117- 1562119*	000000	Dow	
1568450- 1568452*	641118	Widiger, AH Holmes, RD	Greiss, GA
1568511- 1568513*	640730	Holmes, R	Hoyle, HE
1568528 *	000000	Dow	
1568532 *	650813	Smith, FB	Goodchild, CD
1568533- 1568534*	650707	Trapp, WB	Merz, H

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Fernandez, JB
Hanners, H
Tree, R
Fauver, V
DeMott, D
Stamend, V
McDonald, L
Haberstroh, W
Eigsti, D

General Subject Matter

Routes to higher purity
Trichlorophenol

Process descriptions

Goergen, GG

199 building production of Sodium
245 Trichlorophenate

Manufacture of Trichlorophenol at
199 building

Notes on 245T manufacturing
process

Coulter, LL
Trapp, WB
Sinclair, JR
Cessna, OC
Visger, HC
Coon, ET
Walker, E
Farnum, JH

Ivon Watkins Trichlorophenol know-
how

Coon, ET
Amos, JL
Koopman, R

Analytical methods to determine
TCDD in Phenols CTTL

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1568535- 1568537*	650128	Trapp, WB	Merz, H
1568549	000215	Trapp, WB	Doll, O
1568552 *	650401	Trapp, WB	Kooperman, P
1568553- 1568555	650621	Merz, H Deckers Tolkmath, H	Trapp, WB
1568556- 1568557	650312	Trapp, WB	Merz, H
1568558	650000	Dow	
1568569- 1568572*	650126	Trapp, WB	Chamberlain, LC
1568577- 1568578*	650422	Merz, H Doll, O	
1568579- 1568580*	650422	Merz, H Doll, O	

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Sinclair, J
Coulter, LL
Gill, HH

Griess, Ga
Dylewski, SW
Silverstein, L

Summary of phone conversation
between Dow employees

245T manufacturing processing
contract CCTL

Contract concerning Chloracne

Gas Chromatography analyses CCTL

Grote, M
Amos, L
Silverstein, L
Sinclair, JR

Analyses of NA Trichlorophenate
Solution and Anisole Oil CCTL

GLC analysis of your
245-Trichlorophenate Solution

Coulter, KE
Haberstroh, WH
Goergen, GG
Sauers, RC

Trichlorophenol research

245T Contract

245T Contract

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1568581- 1568582*	650422	Merz, H	
1568583- 1568586*	650409	Trapp, WB	Mertz, H
1568588- 1568589*	650330	Sinclair, JR Trapp, WB	
1568592	650223	Merz, H Gerner	Trapp WB
1568593	650205	Trapp, WB	Merz, H
1568594- 1568595	650113	Trapp, WB Farnum, JH	Kudszus, CH
1568602- 1568603	650113	Trapp, WB Farnum, JH	Kudszus
1568604- 1568605	641215	Kudszus Merz Trapp, WB	Dow

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245T Contract

Amos, L
Grote

Toxicological studies, Gas
Chromatography and infrared ana-
lyses CCTL

Amos, L
Coon, ET
Koopman, P

245T Contract

Chloroanisole Oil samples CCTL

Griess, GA

Chloroanisole Oil samples CCTL

Griess, Ga
Silverstein, L
Goergen, GG
Lueck, AF
Poffenberger, N
Sauers, RC

Request for Process information

Griess, GA
Lueck, GA
Silverstein, L
Goergen, GG
Poffenberger, N
Sauers, RC

Request for additional infor-
mation on 245T production

Report on isolation of chlorac-
negen sent to Dow

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1568606- 1568608	641215	Kudszus Merz	Dow
1568609	641217	Merz Jaenicke Boehringer sohn	Silverstein, I
1568610- 1568613	551005		Weyland
1568614- 1568615*	650128	Trapp WB	Coulter, KE
1568622- 1568626*	650105	Poffenberger, N	
1568639- 1568646*	610104	Poffenberger, N	
1568647- 1568664*	641127	Sorge AWB	Sauers, RC

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Report on isolation of chlorac-
negen sent to Dow

Enclosure letter for rabbit tests
conducted in connection with 1955
plant disinfection

Johne
Knecht
Nick
Horner

Rabbit tests conducted in connec-
tion with 1955 plant disinfection

Sauers, RC
Haberstroh, WH

C.H. Boehringer Sohn Contract

Poffenberger, N
Sauers, R
Trapp, W
Lueck, A
Widiger, A
Bradley, K
Goergen, G
Holmes, R
Delisle, N

245-Trichlorophenol notes, pro-
cess information and flowsheet

245-Trichlorophenol flow sheet

Description and prints for pro-
duction methods for obtaining
245-Trichlorophenolate solution
in Boehringer process

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1568666- 1568667	641208	Sorge	
1568687- 1568690*	650105	Poffenberger, N	
1568691- 1568735	650107	Sorge	
1568736- 1568778	560912	Sorge	
1568779- 1568780	641208	Merz	
1568781- 1568795	641127	Sorge	
1568796- 1568797*	650319	Branch, CB CH Boehringer Sohn	
1568800- 1568801	6503305	Trapp, WB Farnum, JH	CH Boehringer Sohn

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General Subject Matter

Chronological survey of the first production period of 245T production

245-Trichlorophenol notes, process information and flowsheet

Poffenberger, N
Sauers, R
Trapp, W
Lueck, A
Widiger, A
Bradley, K
Goergen, G
Holmes, R
Delisle, N

Attempts to determine the chloracne inciter in the production of 245T

Experiments to determine the chloracnegens in 245T production

245T production chronology

Trichlorophenol process

Agreement concerning the disclosure of information regarding the prevention of Chloracne arising out of the production of Sodium 245-Trichlorophenate

Revision of agreement regarding disclosure of information concerning 245-Trichlorophenate process

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1568802- 1568803*	650000	CH Boehringer Sohn	Dow
1568804- 1568805	650305	Trapp, WB Farnum, JH	CH Boehringer Sohn
1568806- 1568807*	650000	CH Boehringer Sohn	Dow
1568814- 1568815	570222	Smith, FB	CH Boehringer Sohn
1568816	570211	CH Boehringer Sohn	Dow
1568817- 1568818*	570000	Weyland	
1569006- 1569019*	650107	Poffenberger, N	

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Agreement concerning the disclosure of information regarding the prevention of Chloracne arising out of the production of Sodium 245-Trichlorophenate

Amos, L
Doedens, J
Haberstroh, W

Revision of agreement regarding disclosure of information concerning 245-Trichlorophenate process

Agreement concerning the disclosure of information regarding the prevention of chloracne arising out of the production of 245-Trichlorophenate

Griswold, AM
Vanderweele, JC
Hoyle
Melching, WA
Knapp
Kleine
Myers, JR
Krahne, O

Preparation of Trichlorophenol to avoid Chloracne

Chloracne, preparation of Trichlorophenol

Preparation of 245T avoiding the formation of Chloracnogens

Sauers, R
Trapp, WB
Poffenberger, N
Widiger, A

245-Trichlorophenol, outline of requirements of applying Boehringer data to Midland operations

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1569105- 1569112*	650209	Dow	Anderson Lueck Goergen West Trapp Morello Wolf Widiger Poffenberger
1569137 *	650127	AHW	
1569138 *	641128	AHW	
1569139- 1569140	650127	RAJ	
1569141- 1569142	650310	AHW	
1569143- 1569153	650211	Bradley, KB	
1569154- 1569167*	650107	Poffenberger, N	

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General Subject Matter

Lueck, A
Holmes, R
Bradley, K
Goergen, GG
Haberstroh, WH

German TCP process, safety
techniques

245 Trichlorophenol reaction
graph time vs temp

Graph Chloracne exciter vs temp

245 Trichlorophenol reaction
graph conversion vs time at 155°C

Caustic hydrolysis of 1245
Tetrachlorobenzene graphs
conversion vs time at 155°C &
165°C

Data & graphs on hydrolysis of
1245-Tetrachlorobenzene

245-Trichlorophenol; outline of
batch reaction

Sauers, RC
Trapp, WB
Poffenberger, N
Widiger, A

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1569168- 1569176*	650203	Poffenberger, N	
1569177- 1569192*	650212	Poffenberger, N	
1569195- 1569197*	650311	Graves, HH	

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Lueck, A
Holmes, R
Delisle, N
Bradley, K
Goergen, GG

Bradley, K
Graves, H
Dylewski, S
Delisle, N
Haberstroh, WH
Sauers, R
Trapp, W
Poffenberger, N
Widiger, A
Coulter, K
Goergen, G
Lueck, A
Staehling, E

245-Trichlorophenol preliminary
process design

Bradley, K
Graves, H
Dylewski, S
Delisle, N
Haberstroh, WH
Sauers, R
Trapp, W
Poffenberger, N
Widiger, A
Coulter, K
Goergen, G
Lueck, A
Staehling, E

245-Trichlorophenol preliminary
process design appendix

Pilot plant preparation of sodium
Trichlorophenate solution

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>	<u>Distributees</u>	<u>General Subject Matter</u>
1569209- 1569210*	650518	Trapp, WB	Goergen, GG	Anderson, RE Delisle, NG Lueck, AF Wehn, WE Hillman, RE	TCP Process
1569221- 1569223*	650302	Cornell, JL	Coulter, KE Delisle, NG Dylewski, SW Goergen, GG Hutchenreuther, OO Haberstroh, WH Lueck, AF Poffenberger, N Sauers, RC Trapp, WB Wappenhensch, O West, KD Wehn, WE Widiger, AH Graves, HE Wolf, RR Anderson, RE Morello, VS Beyer, DG Harris, JS Cornell, JL		Project Conference Trichlorophenol plant
1569232- 1569233*	650304	Harris, JS		Coulter, KE Graves, HE Wolf, RR Haberstroh, WH Dylewski, SW Trapp, W Widiger, A	Notes from 6th Trichlorophenol process review

Dow Number

Date

Author

Recipient

1569239-
1569243*

650315

Anderson, RE
Delisle, NJ

1569247-
1569250*

650318

Harris, JS

1569251-
1569254*

650317

Anderson, RE

6606

Distributees

Morello, V
Cornell, J
Goergen, G

Coulter, KE
Graves, HE
Wolf, RR
Goergen, GG
Lueck, A
Dylewski, SW
Trapp, W
Sauers, R
Poffenberger, N
Hutchenreuther, OO
Wappenhensch, CA
Morrello, VS
Wehn, WE

Coulter, KE
Graves, HE
Wolf, RR
Haberstroh, WH
Dylewski, SW
Trapp, W
Widiger, A
Morello, V
Lyon, G
Goergen, G

General Subject Matter

Trichlorophenol plant scope of
project

Notes from 9th Trichlorophenol
process review

Trichlorophenol reactor cycle

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1570156- 1570165*	000000		
1570376 *	000000	Dow	
1570380 *	000000	Dow	
1572316- 1572322*	690310	Jankowski, SJ	
1572429- 1572440*	641110	EMS	
1572730- 1572734*	710202	Theis, JM	
1572735	700914	Knutson, AT Chase, FI Schmidtke, DJ Dorton, RO	
1572736	700924	Knutson, AT Chase, FI Martin, RA Loucks, MF	
1572737	700406	Knytson, AT Dorton, RO Yeager, LM	

9100

Distributees

General Subject Matter

Tordon process information

Oil formulations

Phenoxy herbicide formulations

Preliminary investigation of
direct ester expansion
capabilities

Woodward, RE
Marshall, SP
Chase, FI
Gilbert, PW
Snodgrass, WA
Kensicki, RF
Haberstroh,
Jankowski, SJ

Direct ester

24D, alternate facility

Dow raw material specification
2,4-Dichlorophenol

Dow raw material specification
sodium Monochloroacetate solution

Caustic soda solution raw
material specification

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1572738	700721	Knutson, AT Kennedy, TL Chase, FI Schmidtke, DJ Martin, RA Landis, CA	
1572739	660923	Hawley, HM DeLong, HC Highhill, CA White, LC Hawley, HM	
1579003- 1579009*	701231	Theis, JM Siedel, M	
1580108- 1580109*	680916	Macphail, AA	Delisle, NG Seidel, EM
1581361- 1581376*	660000	Dow	
1581382- 1581397*	660000	Dow	
1630525 *	650629	Langer, WE Erickson, LE	
1631287- 1631289	000000	Gutierrez, C	

Distributees

General Subject Matter

Internal Dow raw material specification for Hydrochloric acid

Dow raw material specification
24D

Alkaline hydrolysis of 245T and silvex

Crampton, LB
Gunkler, AA
Hensley, EF

Estimating data for 24D production

Chlorophenol Prod.

670000 Chlorophenol Research

Adjustment of funds to firm cost basis, 24D expansion, cost estimate

24D reactor Evop addition analysis

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1631290	670505	Kutrieb, W	
1631291	000000	Kern, W	
1631888- 1631889*	640624	Seidel, EM	
1631901- 1631913*	000000	Seidel, EM	
1710838- 1710856*	740221	Roush, GJ Hoyle, HR	
1710857- 1710885*	700410	Axe, FD Hoyle, HR	
1711008 *	000000	Dow	
1718318- 1718319*	000000	Dow	

Distributees

General Subject Matter

Pete's second set of Ph control

Molten 24D crystallization

Direct Ester Authorization

Handwritten notes concerning
various steps of 245T process

Wipe test for Tertiary Butyl
Catechol and TCDD in 267 bldg.
prior to demolition

Winters, RE
Degeer, JL
Williams, FL
Langner, RR
Kelyman, M
Holder, BB
Blair, EH

Industrial hygiene survey of 245T
production 267 production

Deline, DD
Hodson, RE
Miller, DE
Kramer, CG
Morse, DB
soule, RD
Holder, BB
Lynn, GE
Rowe, VK
Schmidtke, DJ

Notes on direct Ester production

IWD 24D & MCPA & 245T esters

<u>Dow Number</u>	<u>Date</u>	<u>Author</u>	<u>Recipient</u>
1718333- 1718335*	000000	Dow	
1719566- 1719572*	000000	Dow	
1724098- 1724104*	690310	Jankowski, SJ	
1728526- 1728527*	000000	Dow	
1738627- 1738628*	000000	Dow	

Distributees

General Subject Matter

Process time cycles

NATCP solution IWD

Jankowski, SJ
Woodward, RE
Chase, FI
Gilbert, PW
Snodgrass, WA
Marshall, SP
Kensicki, RF
Haberstroh, WH

24D and 245T Esters preliminary
investigation of Direct Ester ex-
pansion capabilities
(ACPD 69-10)

Tordon formulation plant and Tor-
don pellet plant

Flow chart for Tordon production

STATE OF NEW YORK)

ss.:

COUNTY OF NASSAU)

Mary Ann Edenfeld , being duly sworn, deposes and says:

That deponent is not a party to this action, is over 18 years of age and resides in Franklin Square, New York.

That on the 3rd day of December, 1982, deponent served the within Notice of Confidentiality and Index of Confidential Documents of Defendant The Dow Chemical Company

upon the attorneys below set forth representing the parties, as indicated, at the addresses shown, said addresses being designated by said attorneys for that purpose, by depositing a true copy of same, enclosed in a postpaid properly addressed wrapper in an official depository under the exclusive care and custody of the United States Post Office Department within the State of New York.

TO:

SEE ATTACHED SERVICE LIST

Mary Ann Edenfeld

Mary Ann Edenfeld

Sworn to before me this 3rd
day of December , 1982

Bernadette Bonetti

NOTARY PUBLIC

BERNADETTE BONETTI
NOTARY PUBLIC, State of New York
No. 30-4734616
Qualified in Nassau County
Commission Expires March 30, 1983

9104

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9104A

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U. S. DISTRICT COURT - N. Y.

★ JUL 12 1982 ★

TIME A.M. _____
P.M. _____

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

IN RE :

"AGENT ORANGE" :

PRODUCT LIABILITY LITIGATION :

-----X

MDL No. 381

SUPPLEMENTAL ANSWERS OF DEFENDANT
MONSANTO COMPANY TO PLAINTIFFS'
INTERROGATORIES TO DEFENDANTS
(FIRST WAVE)

TOWNLEY & UPDIKE

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9105

915

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

IN RE	:	MDL No. 381
"AGENT ORANGE"	:	SUPPLEMENTAL ANSWERS OF
		DEFENDANT MONSANTO COMPANY
PRODUCT LIABILITY LITIGATION	:	TO PLAINTIFFS' INTERROGATORIES
		<u>TO DEFENDANTS (FIRST WAVE)</u>

-----X

Monsanto Company ("Monsanto"), in accordance with Pretrial Order No. 33 and Monsanto's February 11, 1981 Answers to Plaintiffs' "Interrogatories to Defendants (First Wave)," dated January, 1981 ("Plaintiffs' Interrogatories"), provides the following supplemental answers to Plaintiffs' Interrogatories. The supplemental answers consist of (1) lists of the names of present and past Monsanto employees who held managerial or supervisory positions prior to January 1, 1971, possess pertinent information, and are believed to be living; and (2) 13 schedules of additional Monsanto documents containing information responsive to one or more of the interrogatories. Each such Monsanto document is identified by a nine-digit number. Because of the overlapping nature of some of the interrogatories, some of the document schedules are responsive to more than one interrogatory.

In an Appendix annexed hereto, the names of all Monsanto employees identified in response to the interrogatories are listed alphabetically, together with, for each, his relevant job title or titles held prior to January 1, 1971 and,

if he is not presently employed by Monsanto, his last known address.

The documents identified herein have been segregated according to the 13 schedules and are available for inspection and copying at the offices of Monsanto's attorneys, Townley & Updike, upon reasonable notice.

ANSWERS

INTERROGATORY NUMBER 2

Provide a table of organization of the answering Defendant Company setting forth the following:

Interrogatory 2A

A. The name and location of each division of the defendant responsible for or which participated in the design, production and sale to the United States Government of the herbicide known as Agent Orange for use in Southeast Asia including Vietnam during the period 1960 through 1971.

Supplemental Answer to Interrogatory 2A

See attached Schedules 1 and 3.

Interrogatory 2B

B. The name, address, telephone number, title and duties of every person employed by, under contract with or otherwise related to each Defendant who was responsible for, participated in or familiar with any of the following:

Interrogatory 2B(i)

(i) Negotiations and contract with the United States Government for the sale of the Agent Orange herbicide for use in Southeast Asia including Vietnam during the period 1960 through 1971, including, but not limited to all persons identified in or familiar with the matters stated in Defendants' Motions for Summary Judgment in this case and the documents referred to therein.

Supplemental Answer to Interrogatory 2B(i)

Robert Baynard
John Bush
James Connaughton
Donald Fischer
G. H. Griffin
P. N. Hoffman
William J. McCarville
Dan Middleton
Robert Rumer
Cecil H. Russell
Milt Smid
C. P. Zorsch

Interrogatory 2B(ii)

(ii) Design of the Agent Orange herbicide which was
the subject of the government contract.

Supplemental Answer to Interrogatory 2B(ii)

Donald Cayard
Tom Greenman
Fred Matthews
Donald Mayer
William J. McCarville
Dan Middleton
Robert Rumer
Cecil H. Russell
D. B. Sharp

Interrogatory 2B(iii)

(iii) The production of the Agent Orange herbicide
which was the subject of the government contract.

Supplemental Answer to Interrogatory 2B(iii)

Rick Atkinson
Philip B. Balderson
Edmund Bauer
Tom Boch
John Boehm
Carl Bohl
Donald Cayard
James Connaughton
Eugene Cutwright
Eugene Dotson
Fred Edmonds
Donald Fischer
H. Maxwell Galloway
Tom Greenman
Robert M. Hamlett
Paul Heisler
Frank J. Helmer
F. J. Holzapfel
Peter Howell
Hal Kirtley
William A. Kuhn
Arthur Leisy

Darwin E. Lewis
Charles F. Luecke
Fred Matthews
Donald Mayer
William J. McCarville
Dan Middleton
John Mullendore
Roy Payne
Homer Payton
J. T. Pebworth
Darrell Rainey
Vernon L. Rhodes
Robert Rumer
Cecil H. Russell
Herbert Sachs
Carl Schumacher
Robert Sido
Ronald R. Smith
Robert Soden
James Springgate
Ed Stewart
Frank E. Take, Jr.
Henry F. Trail
William Udell
H. E. Webb, Jr.
Robert Webber

Toby White
Hill Williams
Robert Yoder
C. P. Zorsch

Interrogatory 2B(iv)

(iv) The state of the art and technology during the period of time when Defendants were under contract with the United States Government to supply the Agent Orange herbicide with respect to the formulation, design, manufacturing, method or process and production of the Agent Orange herbicide.

Supplemental Answer to Interrogatory 2B(iv)

See Supplemental Answers to Interrogatories Numbers 2B(ii), (iii) and (vii).

Interrogatory 2B(v)

(v) The risks of dioxin contamination associated with the design and production of the Agent Orange herbicide, the methods of dioxin control reduction or elimination and the costs thereof.

Supplemental Answer to Interrogatory 2B(v)

P. G. Arvan
Rick Atkinson
Philip B. Balderson
Carl Bohl
Owen E. Dolin

Jack D. Early
Peter Howell
R. Emmet Kelly
Darwin E. Lewis
William J. McCarville
John Mullendore
Roy Payne
Vernon L. Rhodes
Frederick L. Rupel
Cecil H. Russell
D. B. Sharp
A. J. Speziale
J. A. Stephans
William Udell
Elmer Wheeler

Interrogatory 2B(vi)

(vi) Warning to the United States Government, if any,
with regard to the matters stated in the preceding item (v).

Supplemental Answer to Interrogatory 2B(vi)

Monsanto presently knows of no representative who was responsible for, participated in or was familiar with warnings to the United States government with regard to the risks of dioxin contamination associated with Agent Orange, or the methods of dioxin control. However, R. Emmet Kelly communicated with government representatives concerning health

effects to workers exposed to 2,4,5-T and its precursors, and John Mullendore communicated with government representatives concerning the dioxin content of chlorinated phenols.

Interrogatory 2B(vii)

(vii) The manufacturing process proposed to be utilized or utilized in the production of Agent Orange.

Supplemental Answer to Interrogatory 2B(vii)

Rick Atkinson
Philip B. Balderson
D. E. Baldus
Edmund Bauer
Tom R. Boch
John Boehm
Carl Bohl
Donald Cayard
James Connaughton
Eugene Cutwright
Owen E. Dolin
Eugene Dotson
Fred Edmonds
H. Maxwell Galloway
Jack Garrett
Tom Greenman
Robert M. Hamlett
L. P. Harich

H. C. Heineman
Paul Heisler
Frank J. Helmer
Peter Howell
Darwin E. Lewis
Charles F. Luecke
D. Lynch
Fred Matthews
Donald Mayer
William J. McCarville
Dan Middleton
John Mullendore
R. L. Null
Roy Payne
Homer Payton
J. T. Pebworth
Wayne Phillips
Vernon L. Rhodes
James N. Roark
Robert Rumer
Frederick L. Rupel
Cecil H. Russell
Herbert Sachs
V. N. Schrodtt
D. B. Sharp

Ronald R. Smith
A. J. Speziale
J. A. Stephans
Ed Stewart
Frank E. Take, Jr.
Marrine A. Terpstra
William Udell
H. E. Webb, Jr.
Robert Webber
Toby White
Robert Yoder

INTERROGATORY NUMBER 3

Identify by name and last known address, and if retired so state and supply the last known address of each and every person, scientific, medical, or otherwise, retained by or known to this defendant or known by this defendant to have been retained by or known to any of the other defendants who has studied, evaluated, or reported or directly or indirectly communicated any findings referable to whatever effects were so found upon animals or human beings resulting from exposure, directly or indirectly, in the formulation, design, manufacture and production of phenoxy herbicides such as 2,4,5-Trichlorophenoxy Aliphatics containing but not limited to the synthetic organic chemical 2,3,7,8-Tetrachlor Dibenzo p-dioxin (TCDD or "Dioxin") and other herbicides containing Polychlorinated

Dibenzo-p-dioxins (PCDDs) and Polychlorinated Dibenzo furans (PCDFs) including the ultimate users of those expected to be exposed to same.

Supplemental Answer to Interrogatory 3

See attached Schedule 7.

INTERROGATORY NUMBER 4 (FIRST)

Provide a table or organization as to the United States Government showing:

Interrogatory 4A (First)

A. The division or units of such division of the United States Government with whom Defendants contracted to supply the Agent Orange herbicide to be used in Southeast Asia including Vietnam during the period 1960 through 1971.

Supplemental Answer to Interrogatory 4A (First)

See attached Schedule 1.

Interrogatory 4B (First)

B. The name, address, telephone number, title and duties of every person employed by, under contract with or otherwise related to said division or units of the United States Government with whom the Defendants, or any of their agents, servants, or employees dealt in connection with the negotiations and contract for the supply of the Agent Orange herbicide, including the design and production of such herbicide.

Supplemental Answer to Interrogatory 4B (First)

See attached Schedule 1.

Interrogatory 4C (First)

C. The name, address, telephone number, title and duties of every person employed by said division and units whom Defendants claim were knowledgeable with respect to the following:

Interrogatory 4C(i) (First)

(i) The state of the art and technology at the time the Defendants were under contract with the United States Government to supply the Agent Orange herbicide with respect to the design and method of process of production including manufacturing process of the Agent Orange herbicide.

Supplemental Answer to Interrogatory 4C(i) (First)

See attached Schedule 3.

Interrogatory 4C(ii) (First)

(ii) The risks of dioxin contamination associated with the design and production of the Agent Orange herbicide, the methods of dioxin control, reduction or elimination and the costs thereof.

Supplemental Answer to Interrogatory 4C(ii) (First)

See attached Schedule 4.

Interrogatory 4C(iii) (First)

(iii) Warning to the United States Government, if any, with regard to the matters stated in the preceding item (ii).

Supplemental Answer to Interrogatory 4C(iii) (First)

Monsanto is presently unable to identify any such person.

Interrogatory 4C(iv) (First)

(iv) The process utilized or proposed to be utilized by defendant to manufacture Agent Orange.

Supplemental Answer to Interrogatory 4C(iv) (First)

See attached Schedule 3.

INTERROGATORY NUMBER 4 (SECOND)

Identify all documents, their location and the name, title, address and telephone number of the custodian in possession or control of, or known to the Defendants which relate to the items 1 through 3 supra, including:

Interrogatory 4A (Second)

A. Any and all research, analyses, tests, testing procedures relative to the manufacture, advertising, sale, promotion, and marketing of phenoxy herbicides such as 2,4,5-Trichlorophenoxy Aliphatics containing but not limited to the synthetic organic chemical 2,3,7,8-Tetracholor Dibenzo p-dioxin (TCDD or "Dioxin") and other herbicides containing Polychlorinated Dibeno-p-dioxins (PCDDs) and Polychlorinated Dibenzo furans (PCDFs), hereinafter simply "Phenoxy herbicides."

Supplemental Answer to Interrogatory 4A (Second)

See attached Schedule 6.

Interrogatory 4B (Second)

B. Analysis, studies, experiments, results of such experiments, including but not limited to the recommendations concerning the results of experiments relative to the formulation, production, manufacture, sale, marketing, promotion, and advertising of phenoxy herbicides.

Supplemental Answer to Interrogatory 4B (Second)

See attached Schedule 6.

Interrogatory 4C (Second)

C. Anyone acting by or on behalf of this defendant or known to be acting by or on behalf of any of the other defendants relative to the research, testing, analysis, evaluation, and recommendations relative to the manufacture, sale, distribution, advertising, and promotion of phenoxy herbicides.

Supplemental Answer to Interrogatory 4C (Second)

See attached Schedule 6.

Interrogatory 4D (Second)

D. Effects of exposure of whatever nature and under whatever circumstances or conditions to phenoxy herbicides.

Supplemental Answer to Interrogatory 4D (Second)

See attached Schedule 7.

Interrogatory 4E (Second)

E. The dates, places and times of measuring and testing exposure in animals (identify by animal) of phenoxy herbicides.

Supplemental Answer to Interrogatory 4E (Second)

See attached Schedule 8.

Interrogatory 4F (Second)

F. The dates, times, places, and results of exposure to humans in whatever form of phenoxy herbicides.

Supplemental Answer to Interrogatory 4F (Second)

See attached Schedule 9.

Interrogatory 4G (Second)

G. Any studies conducted by this defendant or known by this defendant to have been conducted by any of the other defendants or by anyone or by any independent organization retained by this defendant or known by this defendant to have been retained by other defendants with respect to the effects, if any, upon the employees of this defendant or the employees of other defendants known to this defendant or their spouses and children who were in any manner, shape, or form associated with or exposed to the manufacture, production and shipment of phenoxy herbicides.

Supplemental Answer to Interrogatory 4G (Second)

See attached Schedule 10.

Interrogatory 4H (Second)

H. Any and all accidents in the production and manufacturing, shipping, and distribution of phenoxy herbicides including the results of any inquiry by this defendant or known by this defendant to have been made by other defendants or any inquiry by any public or private agency relative to such accident or accidents.

Supplemental Answer to Interrogatory 4H (Second)

See attached Schedule 11.

Interrogatory 4I (Second)

I. Identify and set forth the process utilized for the manufacture of phenoxy herbicides.

Supplemental Answer to Interrogatory 4I (Second)

See attached Schedule 3.

Interrogatory 4J (Second)

J. If the process in response to the above was changed from time to time, identify and set forth each and every process and the dates of changes, if any, to date.

Supplemental Answer to Interrogatory 4J (Second)

See attached Schedule 3.

Interrogatory 4K (Second)

K. The existence of Dioxin in the manufacture and production of phenoxy herbicides.

Supplemental Answer to Interrogatory 4K (Second)

See attached Schedule 4.

Interrogatory 4L (Second)

L. Warranties, representations, and assurances, made by this defendant or known by this defendant to have been made by other defendants to the United States Government in respect of phenoxy herbicides.

Supplemental Answer to Interrogatory 4L (Second)

See attached Schedule 2.

Interrogatory 4M (Second)

M. The company's knowledge of the existence of Dioxin in the production, manufacture, distribution, sale, marketing, and promotion of phenoxy herbicides.

Supplemental Answer to Interrogatory 4M (Second)

See attached Schedule 4.

Interrogatory 4N (Second)

N. Warranties, representations, assurances, and/or promises made by this defendant or known to this defendant to have been made by other defendants to the United States Government relative to the existence or non-existence of Dioxin in phenoxy herbicides.

Supplemental Answer to Interrogatory 4N (Second)

Monsanto has no such documents.

Interrogatory 4O (Second)

O. Negotiations between this defendant or known by this defendant to have been undertaken by or on behalf of the

other defendants between this and/or the other defendants and the United States Government with respect to the existence of Dioxin in the manufacture, production, marketing, promotion, sale, advertising, and distribution, on [sic] phenoxy herbicides.

Supplemental Answer to Interrogatory 40 (Second)

See attached Schedule 2.

Interrogatory 4P (Second)

P. The manufacturing process from beginning to end in the production of phenoxy herbicides.

Supplemental Answer to Interrogatory 4P (Second)

See attached Schedule 3.

Interrogatory 4Q (Second)

Q. All documents which refer or relate, directly or indirectly, to any action, investigation, analysis, study, report, or statements by or on behalf of the company or received by the company or known by this company in respect of the other defendants relating to incidents of medical signs, symptoms, and conditions claimed, suggested, or suspected of being related to exposure in any form to phenoxy herbicides from in or about 1945 to date including but not limited to activities of any treatment organization, study organization and its groups.

Supplemental Answer to Interrogatory 4Q (Second)

See attached Schedule 7.

Interrogatory 4R (Second)

R. All documents which refer or relate, directly or indirectly, to claims filed against this defendant in any local, State or Federal Court, agency, board, or any other entity established to hear such claims for medical conditions claimed to have resulted or be connected directly or indirectly to the formulation, design, production and manufacture of phenoxy herbicides.

Supplemental Answer to Interrogatory 4R (Second)

See attached Schedule 13.

Interrogatory 4S (Second)

S. All documents relative to studies of the effects of phenoxy herbicides when used in Southeast Asia including Vietnam including the dates, times, and places and amounts of use and conditions including but not limited to meteorological conditions for use and any and all instructions, directions, suggestions, indications, and contraindications relative to the use of phenoxy herbicides in Southeast Asia from 1960 to 1971.

Supplemental Answer to Interrogatory 4S (Second)

See attached Schedule 12.

Interrogatory 4T (Second)

T. Any and all such documents relating to any private organizations, conferences, foundations, which have conducted any studies, experiments, evaluations, or analyses

either independently or by and on behalf of the answering defendant or known to have been conducted by or on behalf of the other defendants with respect to the effects, if any, of exposure to phenoxy herbicides on animals and humans and the conclusions and recommendations drawn therefrom and the actions, if any, taken in respect thereto by this defendant or known by this defendant to have been taken by other defendants.

Supplemental Answer to Interrogatory 4T (Second)

See attached Schedule 5.

Interrogatory 4U (Second)

U. The funding by this defendant or known by this defendant to have been funded by any or all of the other defendants of any organizations commissioned, encouraged, suffered, and/or directed to undertake studies relative to the medical, genetic, and systematic effects and any other medical effects upon animals and humans exposed by whatever means under whatever conditions and circumstances to phenoxy herbicides.

Supplemental Answer to Interrogatory 4U (Second)

See attached Schedule 5.

INTERROGATORY NUMBER 5

Provide an index to and summary of each of said documents and provide and indicate their means of identification such as file number, case, etc.

Supplemental Answer to Interrogatory 5

See attached Schedules.

INTERROGATORY NUMBER 6

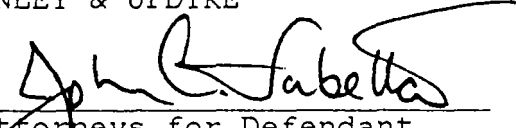
Identify the name, title, address and telephone number of those persons employed by or under contract with, or otherwise related to the Defendants, who were authors of said documents and those persons who are familiar with such documents.

Supplemental Answer to Interrogatory 6

See attached Schedules.

Dated: New York, New York
July 9, 1982

TOWNLEY & UPDIKE

By 

Attorneys for Defendant
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New York, New York 10174
(212) 682-4567

TO: SEE ATTACHED SERVICE LIST

APPENDIX

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Monsanto

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Chemist, Nitro

Monsanto

D.E. BALDUS
Research Chemist, Agricultural Division

Monsanto

EDMUND BAUER
General Manager, Agricultural Division

Monsanto

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TOM R. BOCH
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JOHN BOEHM
Engineer, W.G. Krummrich

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Industrial Hygienist

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DONALD CAYARD
Manager of Guest Operations, Agricultural Products Company

Monsanto

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FRED EDMONDS
Foreman, W.G. Krummrich

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DONALD FISCHER
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Engineer, Technical Services Department

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JACK GARRETT
Manager, Industrial Hygiene & Pollution Abatement

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TOM GREENMAN
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L.P. HARICH
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Production Superintendent, W.G. Krummrich

Monsanto

PAUL HEISLER
General Manufacturing Superintendent, W.G. Krummrich

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Nitro

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R. Emmet KELLY
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Monsanto

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Monsanto

DONALD MAYER
Production Coordinator, W.G. Krummrich

Monsanto

WILLIAM J. MCCARVILLE
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Scheduling Planning, Agricultural Division

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Monsanto

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Labelling Manager, St. Louis

Monsanto

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Krummrich

Monsanto

RONALD R. SMITH
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Monsanto

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Safety Director, Nitro

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Monsanto

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TOBY WHITE
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Director of Research

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ED STEWART
Senior Engineer, W.G. Krummrich

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Manufacturing Superintendent, Nitro

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Ballwin, MO 63011

MARRINE A. TERPSTRA
Research Group Leader, St. Louis

515 Andrews
St. Louis, MO 63122

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NEW YORK)
) ss.:
COUNTY OF NEW YORK)

ISABELLE GANS, being duly sworn, deposes and says: deponent is not a party to the action, is over 18 years of age and resides at 2134-72nd Street, Brooklyn, New York. On the 9th day of July, 1982, deponent served the within Supplemental Answers of Defendant Monsanto Company to Plaintiffs' Interrogatories to Defendants (First Wave) upon the following attorney(s) in this action:

SEE THE ATTACHED RIDER

at the above address(es) designated by said attorney(s) for that purpose by depositing a true copy of same enclosed in a postpaid properly addressed wrapper in an official depository under the exclusive care and custody of the United States Postal Service within the State of New York.

Isabelle Gans
ISABELLE GANS

Sworn to before me this
9th day of July , 1982.

Angel P. Calaf
Notary Public

ANGELA P. CALVAGNA
Notary Public, State of New York
No. 24-4658364
Qualified in Kings County
Cert. Filed in New York County
Commission Expires March 30, 1983

HILL WILLIAMS
Engineering, Queeny

Monsanto

ROBERT YODER
Senior Engineer, St. Louis

Monsanto

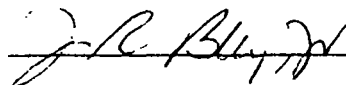
C.P. ZORSCH
Product Supervisor, Agricultural Division

Rt. 2 Box 30
Pacific, MO 63069

VERIFICATION

STATE OF MISSOURI)
) ss.:
COUNTY OF ST. LOUIS)

J. R. Bley, Jr., being duly sworn, deposes and says that he is an assistant secretary of defendant Monsanto Company, a corporation; that he has read the foregoing Supplemental Answers of Defendant Monsanto Company to Plaintiffs' Interrogatories to Defendants (First Wave) and is familiar with the contents thereof; that deponent is without personal knowledge of the matters stated in the foregoing Supplemental Answers, and is informed and believes that no officer or employee of Monsanto Company has personal knowledge of all such matters; that the foregoing Supplemental Answers have been assembled by authorized employees and counsel of Monsanto Company, who have informed deponent that the foregoing Supplemental Answers are true; and that to the best of deponent's knowledge those Supplemental Answers are true.



J. R. Bley, Jr.

Sworn to before me this

7th day of July, 1982



Notary Public
VIRGINIA SCHROEDER
NOTARY PUBLIC, STATE OF MISSOURI
MY COMMISSION EXPIRES 8/29/88
ST. LOUIS COUNTY

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