



**US Environmental Protection Agency  
Office of Pesticide Programs**

**Application for the Extension of the  
Exclusive Use Period for  
Cymoxanil Technical  
(Part 1 of 3)**

**October 19, 2007**



DuPont Crop Protection  
Stine-Haskell Research Center  
P.O. Box 30  
Newark, DE 19714-0030

→ rec'd 2/9/08 & during the  
of 2/9/08  
Δ.12

ACTION: Extension of Period of Exclusive Use	
FEE CATEGORY: NA	REGISTRATION FEE: None

October 19, 2007

**DELIVERED BY FEDERAL EXPRESS**

Ms. Mary Waller, PM-21, Fungicide Branch  
Document Processing Desk  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
One Potomac Yard  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

Subject: Application for Extension of Period of Exclusive Use of Data  
under FIFRA Section 3(c)(1)(F)(ii)  
DuPont™ Cymoxanil Technical (352-591) ✓  
DuPont™ CURZATE® 60 DF Fungicide (352-592) ✓  
DuPont™ TANOS® Fungicide (352-604) ✓

Dear Ms Waller:

With this letter, DuPont™ is requesting an extension of the period of exclusive use for cymoxanil for one year. DuPont™ Cymoxanil Technical (352-591) was registered by EPA on May 6, 1998. It is the active ingredient in two DuPont fungicides, DuPont™ CURZATE® 60 DF (352-592) also registered May 6, 1998 and DuPont™ TANOS® Fungicide (352-604) registered on August 5, 2003. DuPont™ TANOS® Fungicide also contains the active ingredient famoxadone, which is being addressed separately.


FIFRA Section 3(c)(1)(F)(ii) allows the Agency to extend the period of exclusive use for data supporting pesticide products 1 additional year for each 3 minor uses registered within 7 years of the commencement of the exclusive use period, up to a total of 3 additional years for all minor uses registered by the Administrator. The extension is allowed if the Administrator determines that, based on information provided by an applicant for registration that (I) there are no alternatives available, (II) the alternatives

to the minor use pesticide pose greater risks to the environment or human health, (III) the minor use pesticide plays or will play a significant part in managing pest resistance or (IV) the minor use pesticide plays or will play a significant part in an integrated pest management program.

FIFRA Section 2 (1) defines a minor use as (1) a crop for which the total U.S. acreage is less than 300,000 acres or (2) meets one of the four need criteria listed above. Based on those two definitions, there were four minor uses registered for cymoxanil within the first seven years of its initial registration.

- Cucurbits are grown on less than 300,000 acres/year. They were included on the initial TANOS® label of August 5, 2003 and added to the CURZATE® 60DF label on April 22, 2004 (within six years of initial registration of cymoxanil).
- Hops are grown on less than 300,000 acres/year. Hops were also added to the CURZATE® 60DF label on April 22, 2004.
- X • Head lettuce is grown on less than 300,000 acres/year and was added to the TANOS® label on August 5, 2003.
- X • Peppers are grown on less than 300,000 acres/year and were also added to the TANOS® label on August 5, 2003.

Acreage information from the U.S. EPA Report on Minor Uses, August 3, 1996  
(EPA's Minor Use Team in cooperation with the U.S. Department of Agriculture)

Since there were four minor uses registered for the active ingredient cymoxanil within the first seven years of its registration, DuPont is requesting an extension of the exclusive use period of cymoxanil for one year (from May 6, 2008 to May 6, 2009). It should be noted extension of the period of exclusive use for famoxadone which covers a different exclusive use time window with additional crops is being addressed in a separate letter. 

The period of exclusive use for cymoxanil should be extended based on criteria III and IV above. Although there are several other fungicides currently registered or being evaluated for use on cucurbits, hops, head lettuce, and peppers, not all are for the same spectrum of diseases as CURZATE® and TANOS®. Therefore cymoxanil complements the spectrum of existing fungicides. In addition, since there has never, in approximately 25 years of global use, been any resistance develop to cymoxanil, it is a valuable tool for managing phycomycete resistance. The availability of many different products with differing modes of action is of vital importance to extending the usefulness of fungicide resistance management programs. One specific example of this is managing fungicide resistance in Downy Mildew diseases, especially in cucurbit and grape downy mildew where there is a history of developing fungicide resistance. The



curative cymoxanil component is key to managing Downy Mildews, especially new virulent strains of Cucurbit Downy Mildew that have been present in the Eastern US and Canada the past 4-5 years. Add to that its 25 year plus global track record of being used for Downy Mildews and NOT developing resistance and that makes cymoxanil a very useful tool for fungicide resistance management.

There has never been any resistance or cross resistance to cymoxanil. Therefore, the CURZATE® label allows sequential applications of cymoxanil. However, because Tanos contains famoxadone (group 11 fungicide) as well as cymoxanil, Tanos must be both tank mixed and alternated with an effective product having a different mode of action. The Tanos label is probably the most restrictive Group 11 fungicide label for resistance management in the industry.

CURZATE® and TANOS® may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic disease damage. IPM principles and practices include field scouting or other detection methods, correct target disease identification, population monitoring, rotation of fungicides with different modes-of-action, and treating when target disease populations reach locally determined action thresholds. Registration of cymoxanil on minor use crops has helped broaden and strengthen the use of integrated pest management (IPM) strategies. It is fully compatible with use in IPM programs. Cymoxanil is complementary to other lower-risk products, such as Revus, Ranman, Previcur Flex, all of which fit well with IPM programs. When integrated into field programs, it will help with bacterial suppression and plant vigor, which play an important role in IPM.

Additional discussion of the role of cymoxanil in IPM and resistance management can be found in the submissions made at the time for application for registration. Note that, although reduced risk status was not granted because of a data gap for one cymoxanil study (developmental neurotoxicity, which has since been completed), the documentation of the benefits of both cymoxanil and famoxadone and their role in resistance management and IPM are still appropriate.

- *Reduced Risk Rationale for DuPont DPX-KP481 50DF Fungicide (Containing 25% Famoxadone and 25% Cymoxanil); DuPont-2044, MRID 44944501*
- *Reduced Risk Rationale: Cymoxanil; DuPont Report Number CYMO/GEN 5, MRID 44180701*
- *Comparative Assessment of Agronomic and Economic Benefits of the Use of the Fungicide Cymoxanil in Potatoes in the United States ; DuPont Report Number: CYMO/GEN 4, MRID 44180702*

This application does not include any PRIA activity and therefore, DuPont proposes that no PRIA fee is applicable to this submission.



Accompanying this letter are:

- EPA forms 8570-1 (application) for DuPont® Cymoxanil and DuPont™ CURZATE® 60DF Fungicides
- Certification with Respect to Data 8570-34 ) for DuPont® Cymoxanil and DuPont™ CURZATE® 60DF Fungicides
- EPA data matrix forms 8570-35 (public) and 8570-35 (confidential) for DuPont® Cymoxanil and DuPont™ CURZATE® 60DF Fungicides
- A copy of the stamped approved label TANOS® label of August 5, 2003, and the CURZATE® DF label of April 22, 2004 confirming the data of inclusion of the minor uses was within the first seven years of exclusivity, as well as a copy of the current DuPont™ CURZATE® 60DF and TANOS® Fungicide labels confirming the minor crops are still labeled.

DuPont is hereby requesting that the Administrator approve an extension of the exclusive use period for cymoxanil for an additional year for the studies owned by DuPont as identified on the attached data matrix. Please call me at 302-366-5920 if you have any questions. If you have any questions after 10/31/07, please contact Kristi Barnett at 302-366-5051 or kristi.a.barnett@usa.dupont.com.

Sincerely,



Linda S. Mullin  
Acting Product Registration Manager

Mr. Tony Kish, PM-22, Fungicide Branch



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number \_\_\_\_\_

**Application for Pesticide - Section I**

1. Company/Product Number 352-591	2. EPA Product Manager Mary Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DuPont Cymoxanil Technical	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) DuPont Crop Protection Stine Haskell Research Center P.O. Box 30 Newark, DE 19714 Attn: L. Mullin (S300/443) <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Application for extension of period of exclusive use for DuPont Cymoxanil Technical.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Linda S. Mullin	Title Acting Registration Manager	Telephone No. (Include Area Code) (302)366-5920
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  (Stamped)
2. Signature <i>Linda S Mullin</i>	3. Title Acting Registration Manager	
4. Typed Name Linda S. Mullin	5. Date October 19, 2007	





United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number \_\_\_\_\_

**Application for Pesticide - Section I**

1. Company/Product Number 352-592	2. EPA Product Manager Mary Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DuPont CURZATE 60DF Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) DuPont Crop Protection Stine Haskell Research Center P.O. Box 30 Newark, DE 19714 Attn: L. Mullin (S300/443) <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Application for extension of period of exclusive use for DuPont CURZATE 60DF Fungicide.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____		

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Linda S. Mullin	Title Acting Registration Manager	Telephone No. (Include Area Code) (302)366-5921
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  (Stamped)
2. Signature 	3. Title Acting Registration Manager	
4. Typed Name Linda S. Mullin	5. Date October 19, 2007	







**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**1200 Pennsylvania Avenue, N.W.**  
**WASHINGTON, D.C. 20460**

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**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number DuPont Crop Protection Stine Haskell Research Center S300/443 Newark, DE 19714 (302)366-5920	EPA Registration Number/File Symbol 352-591
--	--

Active Ingredient(s) and/or representative test compound(s) Cymoxanil	Date October 19, 2007
--	--------------------------

General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) For formulation into an end use product for terrestrial food use crops	Product Name DuPont Cymoxanil Technical
--	--

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.**

Signature

Date

Oct. 19, 2007

Typed or Printed Name and Title

Linda S. Mullin, Acting Registration Manager





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**1200 Pennsylvania Avenue, N.W.**  
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**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number DuPont Crop Protection Stine Haskell Research Center S300/443 Newark, DE 19714 (302)366-5920	EPA Registration Number/File Symbol 352-592
--	--

Active Ingredient(s) and/or representative test compound(s) Cymoxanil	Date October 19, 2007
--	--------------------------

General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) For formulation into an end use product for terrestrial food use crops	Product Name DuPont CURZATE 60DF Fungicide
--	---

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
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**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

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I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

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**I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.**

Signature

Date

Oct. 19, 2007

Typed or Printed Name and Title

Linda S. Mullin, Acting Registration Manager





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**401 M Street, S.W.**  
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**Data Matrix**

Date: October 19, 2007  
 EPA Reg No./File Symbol: 352-591  
 Applicant's / Registrant's Name & Address: Product: DuPont Cymoxanil Technical  
 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
NA	Reduced Risk Rationale; DuPont Report Title: Reduced Risk Rationale: Cymoxanil ; DuPont Report Number: CYMO/GEN 5	44180701	352	Own	
NA	Supplemental; DuPont Report Title: Comparative Assessment of Agronomic and Economic Benefits of the Use of the Fungicide Cymoxanil in Potatoes in the United States ; DuPont Report Number: CYMO/GEN 4	44180702	352	Own	
61-1	Product Identity and Composition;				
61-2	DuPont Report Title: Technical Grade Cymoxanil: Product Identity and Composition ; DuPont Report Number: CYMO/PRO 1 Rev. 2	43616501	352	Own	
61-3	Product Identity and Composition;				
61-3	DuPont Report Title: Technical Grade Cymoxanil: Product Identity and Composition ; DuPont Report Number: CYMO/PRO 1 Rev. 2, Suppl. 1	44180703	352	Own	
830.1620	Product Properties: Description of Production Process; DuPont Report Title: Technical Grade Cymoxanil: Product Identity and Composition; DuPont Report Number: CYMO/PRO 1 Rev. 2, Suppl. 2	44895101	352	Own	
62-1	Analysis and Certified Limits;				
62-2	DuPont Report Title: Analysis and Certification of Product Ingredients of Cymoxanil; DuPont Report Number: AMR 3161-94	43616502	352	Own	
62-3	Product Properties: Preliminary Analysis;				
830.1700	DuPont Report Title: Preliminary Analysis of Technical Grade Cymoxanil; (E-PX-73217) From Limin Source; DuPont Report Number: DuPont-2123	44980401	352	Own	



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**Data Matrix**

Date: October 19, 2007  
 Applicant's / Registrant's Name & Address:  
 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038

EPA Reg No./File Symbol:  
 352-591

Product:  
 DuPont Cymoxanil Technical

Ingredient

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
830-1700	Product Properties: Preliminary Analysis; DuPont Report Title: Preliminary Analysis of Technical Grade Cymoxanil (DPX-T3217) From WanQuan Source; DuPont Report Number: DuPont-2124	44980402	352	Own	
63-2 - 63-13, 17, 20	Physical and Chemical Characteristics; DuPont Report Title: Physical and Chemical Characteristics of Cymoxanil ; DuPont Report Number: AMR 2641-93	43616503	352	Own	
63-8	Solubility; DuPont Report Title: Solubility of Cymoxanil in pH 5, 7, and 9 Aqueous Buffers ; DuPont Report Number: AMR 2526-92	43616504	352	Own	
63-8	Solubility; DuPont Report Title: Solubility of Cymoxanil in Organic Solvents ; DuPont Report Number: AMR 2541-92	43616505	352	Own	
63-9	Physical and Chemical Characteristics, Vapor Pressure; DuPont Report Title: Vapor Pressure Determination of Cymoxanil at 20°C ; DuPont Report Number: AMR 2537-92	43616506	352	Own	
63-8 63-9	Physical and Chemical Characteristics, Volatility and Vapor Pressure; DuPont Report Title: Volatility of Cymoxanil ; DuPont Report Number: AMR 2726-93	44200701	352	Own	
63-10	Physical and Chemical Characteristics, Dissociation Constant; DuPont Report Title: Dissociation Constant of Cymoxanil ; DuPont Report Number: AMR 2589-92	43616507	352	Own	
63-11	Physical and Chemical Characteristics, octanol/ water coefficient; DuPont Report Title: Octanol Water Partition Coefficient of Cymoxanil ; DuPont Report Number: AMR 2581-92	43616508	352	Own	



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Date: October 19, 2007		EPA Reg No./File Symbol: 352-591		
Applicant's / Registrant's Name & Address: E. I. DuPont de Nemours and Company, Agricultural Products, P.O. Box 80038, Wilmington, DE 19880-0038		Product: DuPont Cymoxanil Technical		
Ingredient				
Guideline Reference Number	Guideline Study name:	MRID Number	Status	Note
63-13	Physical and Chemical Characteristics, stability; DuPont Report Title: Stability of Cymoxanil in the Presence of Metal And Metal Ions, In Sunlight and at Normal and Elevated Temperatures ; DuPont Report Number: AMR 2618-93	43616509	Own	
63-14	Physical and Chemical Characteristics; DuPont Report Title: Thermal Stability of Cymoxanil ; DuPont Report Number: AMR 2620-93	43616510	Own	
63-15	Physical and Chemical Characteristics; DuPont Report Title: Auto Flammability, Flammability, Explosive and Oxidizing Properties of Cymoxanil ; DuPont Report Number: AMR 3510-95	44180704	Own	
63-16	Physical and Chemical Characteristics; DuPont Report Title: Long-Term Storage Stability and Corrosion Characteristics of Cymoxanil ; DuPont Report Number: AMR 2639-93	43616511	Own	
63-17	Physical and Chemical Characteristics; DuPont Report Title: Supplement No. 1 To: Long-Term Storage Stability and Corrosion Characteristics of Cymoxanil ; DuPont Report Number: AMR 2639-93 Suppl. 1	43773901	Own	
830.7050	Physical and Chemical Characteristics; DuPont Report Title: UV/Visible Absorption of Cymoxanil; DuPont Report Number: AMR 4865-98	44579101	Own	
81-1	Acute Oral Toxicity -rat; DuPont Report Title: Acute Oral Toxicity Study with DPX-T3217-113 (Cymoxanil) in Male and Female Rats ; DuPont Report Number: HLR 63-92	43616512	Own	
870.1100	Acute Oral Toxicity -rat; DuPont Report Title: Cymoxanil (DPX-T3217) Technical: Acute Oral Toxicity in Rats - Up-and-Down Procedure ; DuPont Report Number: DuPont-19965	47045201	Own	

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 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038

EPA Reg No./File Symbol:  
 352-591

Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
870-1100	Acute Oral Toxicity -rat; DuPont Report Title: Cymoxanil (DPX-T3217) Technical: Acute Oral Toxicity in Rats ; DuPont Report Number: DuPont-22035	47160301	352	Own	
81-2	Acute Dermal Toxicity; DuPont Report Title: Acute Dermal Toxicity Study with DPX-T3217-113 (Cymoxanil) in Rabbits ; DuPont Report Number: HLR 149-92	43616513	352	Own	
81-3	Acute Inhalation Toxicity -rat; DuPont Report Title: Acute Inhalation Toxicity Study with DPX-T3217-115 (Cymoxanil) in Rats(Revision 1) ; DuPont Report Number: HLR 83-92 Rev. 1	42706303	352	Own	
81-4	Primary Eye Irritation -rabbit; DuPont Report Title: Primary Eye Irritation Study with DPX-T3217-113 (Cymoxanil) in Rabbits ; DuPont Report Number: HLR 97-92	43616514	352	Own	
81-4	Primary Eye Irritation -rabbit; DuPont Report Title: Cymoxanil (DPX-T3217) Technical: Primary Eye Irritation in Rabbits ; DuPont Report Number: DuPont-19972	47160302	352	Own	
81-5	Primary Dermal Irritation; DuPont Report Title: Primary Dermal Irritation Study with DPX-T3217-113 (Cymoxanil) in Rabbits (Revision 1) ; DuPont Report Number: HLR 787-91	43616515	352	Own	
81-6	Dermal Sensitization; DuPont Report Title: Closed-Patch Repeated Insult Dermal Sensitization Study (Maximization Method) with DPX-T3217-113 (Cymoxanil) in Guinea Pigs ; DuPont Report Number: HLO 255-92	43640501	352	Own	
82-1	90-day Oral -rodent; DuPont Report Title: Subchronic Oral Toxicity: 90-Day Study with DPX-T3217-107 (Cymoxanil) Feeding and Neurotoxicity Study in Rats (Revision 1) ; DuPont Report Number: HLR 370-91 Rev. 1	43616516	352	Own	



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 P.O. Box 80038, Wilmington, DE 19880-0038

Ingredient

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
82-1	90-day Oral -rodent; DuPont Report Title: Subchronic Oral Toxicity: 90-Day Study with DPX-T3217-107 (Cymoxanil) Feeding and Neurotoxicity Study in Rats (Revision 1) (Additional Positive Control Data in Support of MRID 43616516 For Cymoxanil) ; DuPont Report Number: HLR 370-91 Rev. 1 Suppl. 1	Submitted 7/9/96, no MRID	352	Own	
82-1	90-day Oral -rodent; DuPont Report Title: Subchronic Oral Toxicity: 90-Day Study with DPX-T3217-107 Feeding Study in Mice (2 Volumes) ; DuPont Report Number: HLR 630-91 Rev. 1	43616517	352	Own	
82-1	90-day Oral -nonrodent; DuPont Report Title: Subchronic Oral Toxicity: 90-Day Study with DPX-T3217-113 (Cymoxanil) Feeding Study in Dogs (3 Volumes) ; DuPont Report Number: HLO 797-92	43640502	352	Own	
82-2	21-day Dermal; DuPont Report Title: Repeated Dose Dermal Toxicity: 28-Day Study with DPX-T3217-113 (Cymoxanil) in Rats ; DuPont Report Number: HLR 374-96	44180705	352	Own	
82-7	90-day Neurotoxicity -rat; DuPont Report Title: Neurotoxicity Evaluation of Trimethyltin in Rats (Positive Control Study) ; DuPont Report Number: HLR 266-95	44628701	352	Own	
82-7	90-day Neurotoxicity -rat; DuPont Report Title: Neurotoxicity Evaluation of Acrylamide in Rats (Positive Control Study) ; DuPont Report Number: HLR 293-95	44660601	352	Own	
83-1	Chronic feeding -two species, rodent and nonrodent; DuPont Report Title: Chronic Toxicity Study with DPX-T3217-113 (Cymoxanil) One Year Feeding Study in Dogs (4 Volumes) ; DuPont Report Number: HLO 65-94	43616518	352	Own	



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 Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
83-2	Carcinogenicity -two species -mouse ; DuPont Report Title: Oncogenicity Study with DPX-T3217-113 (Cymoxanil) Eighteen-Month Feeding Study In Mice (7 Volumes) ; DuPont Report Number: HLR 677-93	43616519	352	Own	
83-3	Developmental Toxicology -rat; DuPont Report Title: Developmental Toxicity Study of DPX-T3217-113 (Cymoxanil) In Rats ; DuPont Report Number: HLR 744-92	43616524	352	Own	
83-3	Developmental Toxicology -rabbit; DuPont Report Title: Effect of H12712 on Pregnancy of the New Zealand White Rabbit ; DuPont Report Number: HLO 319-80	43616521	352	Own	
83-3	Developmental Toxicology -rabbit; DuPont Report Title: Effect of H12712 on Pregnancy of the New Zealand White Rabbit ; DuPont Report Number: HLO 805-81	43616522	352	Own	
83-3	Developmental Toxicology -rabbit; DuPont Report Title: Teratogenicity Study of INT-3217 in New Zealand White Rabbits (Segment II Evaluation) ; DuPont Report Number: HLO 467-82	43640503	352	Own	
83-3	Developmental Toxicology -rabbit; DuPont Report Title: Teratogenicity Study of INT-3217 in New Zealand White Rabbits (Segment II Evaluation) ; DuPont Report Number: HLO 467-82 Suppl.1	43616523	352	Own	
83-4	Reproduction Toxicology -rat; DuPont Report Title: Reproductive and Fertility Effects with DPX-T3217-113 (Cymoxanil) Multigeneration Reproduction Study in Rats (4 Volumes) ; DuPont Report Number: HLR 568-93	43616520	352	Own	
83-5	Combined chronic toxicity/carcinogenicity; DuPont Report Title: Combined Chronic Toxicity/Oncogenicity Study with DPX-T3217-113 (Cymoxanil) Two- Year Feeding Study in Rats (8 Volumes) ; DuPont Report Number: HLR 678-93	43616525	352	Own	

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Ingredient					
Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Mutagenicity Testing of DPX-T3217-113 (Cymoxanil) In The Salmonella Typhimurium Plate Incorporation Assay ; DuPont Report Number: HLR 573-92	43616526	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Mutagenicity Evaluation of DPX-T3217-113 (Cymoxanil Technical) In The CHO/HPRT Assay ; DuPont Report Number: HLR 826-92	43616527	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Mouse Bone Marrow Micronucleus Assay of DPX-T3217-113 (Cymoxanil Technical) ; DuPont Report Number: HLR 827-92	43616528	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: In Vitro Evaluation of DPX-T3217-113(Cymoxanil Technical) For Chromosome Aberrations in Human Lymphocytes ; DuPont Report Number: HLR 835-92	42706302	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Synthesis in Rat Hepatocytes and Spermatoocytes Following In Vivo Exposure to DPX-T3217-113 (Cymoxanil Technical) by Oral Gavage ; DuPont Report Number: HLR 169-94	43616529	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Determination of Unscheduled DNA Synthesis in Rat Hepatocytes and Spermatoocytes Following In Vivo Exposure to DPX-T3217-113(Cymoxanil Technical) by Oral Gavage ; DuPont Report Number: HLR 169-94 Suppl. 1	44180706	352	Own	
84-2	Special Testing, Mammalian cells in culture; DuPont Report Title: Assessment of DPX-T3217-113(Cymoxanil Technical) in the In Vitro Unscheduled DNA Synthesis Assay In Primary Rat Hepatocytes ; DuPont Report Number: HLR 796-92	42706301	352	Own	



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 P.O. Box 80038, Wilmington, DE 19880-0038

Ingredient

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
85-1	Special Testing, General Metabolism; DuPont Report Title: The Absorption, Distribution, Metabolism and Excretion of [2-14C]-DPX-T3217 in the Rat ; DuPont Report Number: AMR 2083-91	43616530	352	Own	
85-1	Special Testing, General Metabolism; DuPont Report Title: The Absorption, Distribution, Metabolism and Excretion of [2-14C]- DPX-T3217 in the Rat ; DuPont Report Number: AMR 2083-91 Suppl. 1	43616531	352	Own	
85-1	Special Testing, General Metabolism; DuPont Report Title: Biliary Excretion of [14C]Cymoxanil in the Rat ; DuPont Report Number: AMR 3326-95	44180707	352	Own	
870.6300	Developmental Neurotoxicity; DuPont Report Title: Developmental Neurotoxicity Study of Cymoxanil in CRL:CD (SD) IGS BR VAF/Plus Presumed Pregnant Rats ; DuPont Report Number: DuPont-3146	45377901	352	Own	
870.7800	Immunotoxicity; DuPont Report Title: Cymoxanil Technical (DPX-T3217): 28-Day Immunotoxicology Study in Rats ; DuPont Report Number: DuPont-1799	44944601	352	Own	
870.7800	Immunotoxicity; DuPont Report Title: Cymoxanil Technical (DPX-T3217): 28-Day Immunotoxicology Study in Mice ; DuPont Report Number: DuPont-1998	44944602	352	Own	
870.7800	Immunotoxicity; DuPont Report Title: Cyclophosphamide Monohydrate: Validation of the Sheep Red Blood Cell-Specific IgM Enzyme-Linked Immunosorbent Assay to Evaluate the Immunosuppressive Potential of a Known Immunosuppressant Agent in Mice ; DuPont Report Number: DuPont-1820	44946226	352	Own	

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 Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
870.7800	Immunotoxicity; DuPont Report Title: Cyclophosphamide Monohydrate: Validation of the Sheep Red Blood Cell-Specific IgM Enzyme-Linked Immunosorbent Assay to Evaluate the Immunosuppressive Potential of a Known Immunosuppressant Agent in Rats ; DuPont Report Number: DuPont-1797	44946224	352	Own	
NA	Supplemental; DuPont Report Title: DuPont Response to EPA Request for Dominant Lethal and Developmental Neurotoxicity Studies in Rats with Cymoxanil ; DuPont Report Number: DuPont-1449	44648701	352	Own	
NA	Supplemental; DuPont Report Title: Mammalian Toxicology Monograph for Technical Cymoxanil (DPX-T3217) ; DuPont Report Number: CYMO/GEN 2	44180708	352	Own	
NA	Supplemental; DuPont Report Title: Mammalian Toxicology Monograph for Technical Cymoxanil (DPX-T3217), Supplement No. 1 ; DuPont Report Number: CYMO/GEN 2 Suppl.1	44180709	352	Own	
71-1	Avian Oral LD50; DuPont Report Title: H-19,062-02: An Acute Oral Toxicity Study With the Northern Bobwhite ; DuPont Report Number: HLO 136-92	44180710	352	Own	
71-1	Avian Oral LD50; DuPont Report Title: H-19,062-02: An Acute Oral Toxicity Study With the Mallard ; DuPont Report Number: HLO 139-92	44180711	352	Own	
71-2	Avian Dietary LD50; DuPont Report Title: H-19,062-02: A Dietary LC50 Study With the Northern Bobwhite ; DuPont Report Number: HLO 138-92	44180712	352	Own	
71-2	Avian Dietary LD50; DuPont Report Title: H-19,062-02: A Dietary LC50 Study With the Mallard ; DuPont Report Number: HLO 137-92	44180713	352	Own	



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 Product: DuPont Cymoxanil Technical  
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Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
71-4	Avian Reproduction; DuPont Report Title: DPX-T3217-113 (Cymoxanil): A Reproduction Study with the Northern Bobwhite (Colinus virginianus) ; DuPont Report Number: AMR 3507-95	44180714	352	Own	
71-4	Avian Reproduction; DuPont Report Title: DPX-T3217-113 (Cymoxanil): A Reproduction Study with the Mallard (Anas platyrhynchos) ; DuPont Report Number: AMR 3508-95	44180715	352	Own	
72-1	Freshwater Fish LC50; DuPont Report Title: Static, Acute, 96-hour LC50 of DPX-T3217-113 (Cymoxanil) to Common Carp, Cyprinus Carpio ; DuPont Report Number: HLR 734-92	44180716	352	Own	
72-1	Freshwater Fish LC50; DuPont Report Title: Static, Acute, 96-hour LC50 of DPX-T3217-113 (Cymoxanil) to Rainbow Trout, Oncorhynchus Mykiss ; DuPont Report Number: HLR 735-92	44180717	352	Own	
72-1	Freshwater Fish LC50; DuPont Report Title: Static, Acute, 96-hour LC50 of DPX-T3217-113 (Cymoxanil) to Bluegill Sunfish, Lepomis Macrochirus ; DuPont Report Number: HLR 834-92	44180718	352	Own	
72-2	Acute EC50 Freshwater Invertebrates; DuPont Report Title: Static, Acute, 48-hour EC50 of DPX-T3217-113 (Cymoxanil) to Daphnia Magna ; DuPont Report Number: HLR 736-92	44180719	352	Own	
72-2	Acute EC50 Freshwater Invertebrates; DuPont Report Title: IN-KQ960 Static, Acute, 48-hour EC50 to Daphnia Magna ; DuPont Report Number: DuPont-9559	45689201	352	Own	

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Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
72-3(a)	Acute LC50/EC50 Estuarine and Marine Organisms; DuPont Report Title: Acute Toxicity of DPX-T3217-113 (Cymoxanil) To The Sheepshead minnow, Cyprinodon variegatus ; DuPont Report Number: HLO 634-96	44180720	352	Own	
72-3(b)	Acute LC50/EC50 Estuarine and Marine Organisms; DuPont Report Title: Acute Flow-Through Mollusc Shell Deposition Test with DPX-T3217-113 (Cymoxanil) ; DuPont Report Number: HLO 633-96	44180721	352	Own	
72-3(c)	Acute LC50/EC50 Estuarine and Marine Organisms; DuPont Report Title: Acute Toxicity of DPX-T3217-113 (Cymoxanil) to the Mysid, Mysidopsis bahia ; DuPont Report Number: HLO 632-96	44180722	352	Own	
72-4	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Early -Life Stage Toxicity to Rainbow Trout, Oncorhynchus mykiss (3 volumes) ; DuPont Report Number: HLR 411-96	44180723	352	Own	
72-4	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Early -Life Stage Toxicity to Rainbow Trout, Oncorhynchus mykiss (3 volumes) ; DuPont Report Number: HLO 1013-96	44364610	352	Own	
72-4	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: Chronic Toxicity of DPX-T3217-113 (Cymoxanil) to Daphnia Magna: 24-Hour Renewal (3 volumes) ; DuPont Report Number: HLR 354-93 Rev. 1	44180724	352	Own	
72-4	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: Flow-Through, 21-Day Toxicity of DPX-T3217-113 (Cymoxanil) to Rainbow Trout, Oncorhynchus Mykiss ; DuPont Report Number: HLR 545-92	44180725	352	Own	



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Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
72-4	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: Early Life Stage of DPX-T3217-113 (Cymoxanil) to the Sheephead Minnow, <i>Cyprinodon variegatus</i> (4 volumes); DuPont Report Number: HLO 913-96	44180726	352	Own	
72-4(c)	Fish Early Life Cycle and Aquatic Invertebrates Life Cycle; DuPont Report Title: Chronic Toxicity of DPX-T3217-113 (Cymoxanil) to The Mysid, <i>Mysidopsis bahia</i> (4 Volumes); DuPont Report Number: HLO 914-96	44180727	352	Own	
122-1	Plant Protection: Tier I: Seed germination; DuPont Report Title: The Influence of The Fungicide Cymoxanil on Seedling Emergence and Vegetative Vigor of Several Terrestrial Plants; DuPont Report Number: CYMO/ECO 2	156179	352	Own	
122-2	Plant Protection: Tier I: Aquatic Plant Growth; DuPont Report Title: Cymoxanil: Influence on Growth and Reproduction of Lemna Gibba G3; DuPont Report Number: AMR 3775-96	44180728	352	Own	
122-2 123-2	Plant Protection: Tier I and Tier II: Aquatic Plant Growth; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Influence on Growth and Reproduction of <i>Anabaena flos-aquae</i> ; DuPont Report Number: AMR 4109-96	44180729	352	Own	
122-2	Plant Protection: Tier I: Aquatic Plant Growth; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Influence on Growth and Reproduction of <i>Selenastrum capricornutum</i> ; DuPont Report Number: AMR 4110-96	44180730	352	Own	
122-2	Plant Protection: Tier I: Aquatic Plant Growth; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Influence on Growth and Reproduction of <i>Skeletonema costatum</i> ; DuPont Report Number: AMR 4111-96	44180731	352	Own	
122-2 123-2	Plant Protection: Tier I and Tier II: Aquatic Plant Growth; DuPont Report Title: DPX-T3217-113 (Cymoxanil): Influence of Growth and Reproduction of <i>Navicula pelliculosa</i> ; DuPont Report Number: AMR 4112-96	44180732	352	Own	

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**Data Matrix**

Date: October 19, 2007  
 EPA Reg No./File Symbol: 352-591  
 Applicant's / Registrant's Name & Address: Product: DuPont Cymoxanil Technical  
 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038

Ingredient

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
122-2 123-2	Plant Protection: Tier I and Tier II: Aquatic Plant Growth; DuPont Report Title: Cymoxanil Aquatic Degradate Mixture Including RFI: Influence of Growth and Growth Rate of the Blue-Green Alga, <i>Anabaena flos-aquae</i> ; DuPont Report Number: DuPont-3529	45039001	352	Own	
122-2	Plant Protection: Tier I: Aquatic Plant Growth; DuPont Report Title: The Algistatic Activity of Cymoxanil Technical; DuPont Report Number: DPT 171(Q)/88601	44180733	352	Own	
NA	Supplemental; DuPont Report Title: Cymoxanil (DPX-3217) Technical: Activated Sludge, Respiration Inhibition Test; DuPont Report Number: DuPont-4483	45317701	352	Own	
NA	Supplemental; DuPont Report Title: Additional Information Regarding the Ecological Effects of Cymoxanil; DuPont Report Number: CYMO/ECO 3	44180734	352	Own	
141-1	Honeybee acute contact LD50; DuPont Report Title: An Acute Contact Toxicity Study with the Honey Bee; DuPont Report Number: HLO 100-93	44180735	352	Own	
141-1	Honeybee acute contact LD50; DuPont Report Title: A Dietary LC50 Toxicity Study with the Honey Bee; DuPont Report Number: HLO 99-93	44180736	352	Own	
NA	Supplemental; DuPont Report Title: Cymoxanil (Tech) Determination of Acute Toxicity (LC50) Earthworms; DuPont Report Number: IRI 8548	44200702	352	Own	
NA	Supplemental; DuPont Report Title: Cymoxanil: A Prospective Tier I Ecological Effects Assessment for Non-Target Organisms; DuPont Report Number: AMR 4191-96	44180737	352	Own	



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 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P. O. Box 80038, Wilmington, DE 19880-0038  
 Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
NA	Supplemental; DuPont Report Title: Cymoxanil: A Prospective Tier I Ecological Effects Assessment for Non-Target Organisms ; DuPont Report Number: AMR 4191-96 Revision 1	44944603	352	Own	
NA	Supplemental; DuPont Report Title: Tier 1 Environmental Risk Assessment of DuPont DPX-KP481 Fungicide (Containing 25% Famoxadone and 25% Cymoxanil) and Competitive Fungicides in the USA; DuPont Report Number: DuPont-2038	44946304	352	Own	
161-1	Environmental Fate: Degradation Studies: Hydrolysis; DuPont Report Title: Hydrolysis of Cymoxanil (DPX-T3217) In Buffer Solutions of pH 5, 7, and 9 ; DuPont Report Number: AMR 3677-95	44180738	352	Own	
161-2	Environmental Fate: Degradation Studies: Photodegradation in Water; DuPont Report Title: Photodegradation of [2-14C]DPX -T3217 (Cymoxanil) In Pond Water And Sterile Buffer pH 5 ; DuPont Report Number: AMR 1990-91	44180739	352	Own	
161-2	Environmental Fate: Degradation Studies: Photodegradation in Water; DuPont Report Title: Quantum Yield Determination of DPX-T3217(Cymoxanil) and LC/MS Confirmation of Unknown Degradates in Sterile Buffer pH 5 (Supplement 1) ; DuPont Report Number: AMR 1990-91 Suppl. 1	44180740	352	Own	
161-3	Environmental Fate: Degradation Studies: Photodegradation on Soil; DuPont Report Title: Photodegradation of Radiolabeled Cymoxanil on Soil Under Simulated Sunlight ; DuPont Report Number: AMR 3582-95	44180741	352	Own	
NA	Environmental Fate: Degradation Studies in Water/Soil; DuPont Report Title: Degradation of Cymoxanil on in Two Water/Sediment Systems; DuPont Report Number: DuPont- 2695	45465101	352	Own	

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Applicant's / Registrant's Name & Address: E. I. DuPont de Nemours and Company, Agricultural Products, P.O. Box 80038, Wilmington, DE 19880-0038	Product: DuPont Cymoxanil Technical
Ingredient	

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
162-1	Environmental Fate: Metabolism Studies: Aerobic Soil; DuPont Report Title: Degradation Rate of [14C]Cymoxanil on Four Soils ; DuPont Report Number: AMR 2869-93	44180742	352	Own	
162-1	Environmental Fate: Metabolism Studies: Aerobic Soil; DuPont Report Title: Aerobic Soil Metabolism of 14C-Cymoxanil ; DuPont Report Number: AMR 3438-95	44180743	352	Own	
162-1	Environmental Fate: Metabolism Studies: Aerobic Soil; DuPont Report Title: Aerobic Soil Metabolism of 14C-Cymoxanil ; DuPont Report Number: AMR 3438-95 Revision 1	45357101	352	Own	
162-3	Environmental Fate: Metabolism Studies: Anaerobic Soil; DuPont Report Title: Anaerobic Aquatic Metabolism of Cymoxanil; DuPont Report Number: AMR 3407-95	44180744	352	Own	
163-1	Environmental Fate: Mobility Studies: Leaching and Adsorption/ Desorption; DuPont Report Title: Batch Equilibrium (Adsorption/Desorption) Studies of [14C]DPX-T3217 ; DuPont Report Number: AMR 2112-91	44180745	352	Own	
163-1	Environmental Fate: Mobility Studies: Leaching and Adsorption/ Desorption; DuPont Report Title: Soil Batch Equilibrium Study of Cymoxanil Degradates ; DuPont Report Number: AMR 3722-95	44180746	352	Own	
164-1	Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: Field Soil Dissipation of Cymoxanil Following Application of Curzate <input type="checkbox"/> M-8 Fungicide ; DuPont Report Number: AMR 3401-95	44180747	352	Own	
164-1	Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: Field Soil Dissipation of Famoxadone and Cymoxanil Following Application of DPX-KP481 Fungicide, USA ; DuPont Report Number: AMR 4329-97	44946410	352	Own	



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Applicant's / Registrant's Name & Address: E. I. DuPont de Nemours and Company, Agricultural Products, P.O. Box 80038, Wilmington, DE 19880-0038	Product: DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
164-1	Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: Field Soil Dissipation of Famoxadone and Cymoxanil Following Application of DPX-KP481 Fungicide, USA ; DuPont Report Number: AMR 4329-97 Supplement 2	45294106	352	Own	
165-4	Environmental Fate: Accumulation Studies in Fish; DuPont Report Title: Cymoxanil Fish Bioaccumulation Study ; DuPont Report Number: CYMO/ENV 2	Waiver Requested - No MIRID Assigned	352	Own	
171-4 164-1	Environmental Fate: Dissipation: Field Terrestrial, Nature of the Residue -Plants; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Soil using Liquid Chromatography ; DuPont Report Number: AMR 3595-95	44180749	352	Own	
171-4 164-1	Environmental Fate: Dissipation: Field Terrestrial, Nature of the Residue -Plants; DuPont Report Title: Analytical Method for the Determination of Cymoxanil in Water Using Liquid Chromatography ; DuPont Report Number: AMR 3430-95	44180750	352	Own	
164-1	Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: Independent Laboratory Validation of the Analytical Method for the Determination of Cymoxanil in Water Using Liquid Chromatography ; DuPont Report Number: AMR 3683-95	44180751	352	Own	
164-1	Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: Independent Laboratory Validation of the Analytical Method for the Determination of Cymoxanil Residues in Soil by High Pressure Liquid Chromatography ; DuPont Report Number: AMR 4119-96	44180752	352	Own	
171-4(c) 164-1	Residue Analytical Method, Environmental Fate: Dissipation: Field Terrestrial; DuPont Report Title: A Confirmatory Analytical Method for the Determination of Cymoxanil Residues in Soil, Water, and Potatoes Using LC/MS ; DuPont Report Number: AMR 4171-96	44180753	352	Own	

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 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038  
 Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
NA	Supplemental; DuPont Report Title: Predicted Environmental Concentrations of Cymoxanil in Soil, Groundwater, Surface Water and Air Resulting from Application to Potatoes ; DuPont Report Number: AMR 4210-96	44180754	352	Own	
NA	Supplemental; DuPont Report Title: Predicted Environmental Concentrations of Cymoxanil in Surface Water, Groundwater, and Soil Resulting from Application of DPX-KP481 to Potatoes, Tomatoes, Cucurbits, and Lettuce for USA; DuPont Report Number: DuPont-2354	44944604	352	Own	
165-1	Confined Accumulation in Rotational Crops; DuPont Report Title: Accumulation of Residues in Confined Rotational Crops: Lettuce, Wheat, and Beets After Treatment with [14C]Cymoxanil ; DuPont Report Number: AMR 3575-95	44180748	352	Own	
171-4(a)	Nature of the Residue -Plants; DuPont Report Title: Plant Metabolism of [2-14C] Cymoxanil in Potatoes ; DuPont Report Number: AMR 3408-95	44180755	352	Own	
171-4(a)	Nature of the Residue -Plants; DuPont Report Title: The Metabolism of [2-14C]DPX-T3217 By Grapes, Potatoes, and Tomatoes ; DuPont Report Number: AMR 2181-91	43616532	352	Own	
171-4(a) 860.1300	Nature of the Residue -Plants; DuPont Report Title: Plant Metabolism of [2-14C]Cymoxanil in Tomatoes ; DuPont Report Number: AMR 3780-96	44439601	352	Own	
860.13	Nature of the Residue -Plants; DuPont Report Title: Metabolism of [2-14C]Cymoxanil in Lettuce ; DuPont Report Number: AMR 4375-97	44944605	352	Own	



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Applicant's / Registrant's Name & Address: E. I. DuPont de Nemours and Company, Agricultural Products, P.O. Box 80038, Wilmington, DE 19880-0038	Product: DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
171-4(b)	Nature of the Residue -livestock; DuPont Report Title: The Distribution of [2-14C]-DPX-T3217 (Cymoxanil) in the Lactating Goat; DuPont Report Number: AMR 2084-91	44180756	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Potatoes and Potato Processing Fractions Using Liquid Chromatography ; DuPont Report Number: AMR 3333-95	44180757	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Independent Laboratory Validation of the Analytical Method for the Determination of Residues of Cymoxanil in Potatoes and Potato Processing Fractions Using Liquid Chromatography ; DuPont Report Number: AMR 3452-95	44200703	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of DPX-JE874 and Cymoxanil Residues in Various Matrices ; DuPont Report Number: AMR 3705-95	44180758	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of DPX-JE874 and Cymoxanil Residues in Various Matrices ; DuPont Report Number: AMR 3705-95 Rev. 2	44579102	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Grapes and Tomatoes Using Column Switching Liquid Chromatography ; DuPont Report Number: AMR 3060-94	43640504	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Grapes and Tomatoes Using Column Switching Liquid Chromatography ; DuPont Report Number: AMR 3060-94 Rev.1	44001701	352	Own	

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 P. O. Box 80038, Wilmington, DE 19880-0038  
 Product:  
 DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Grapes and Tomatoes Using Column Switching Liquid Chromatography ; DuPont Report Number: AMR 3060-94 Rev.2	44579103	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Analytical Method for the Determination of Residues of Cymoxanil in Wine Using Liquid Chromatography (Supplement 1) ; DuPont Report Number: AMR 3060-94 Suppl. 1	43640505	352	Own	
171-4(c)	Residue Analytical Method; DuPont Report Title: Independent Laboratory Validation of the Analytical Method for the Determination of Residues of Cymoxanil in Grapes and Tomatoes Using Column-Switching Liquid Chromatography ; DuPont Report Number: AMR 3148-94	43616541	352	Own	
171-4	Nature of the Residue; DuPont Report Title: Testing of DPX-T3217 through FDA Multi-Residue Protocols A through E ; DuPont Report Number: AMR 2536-92	43616540	352	Own	
171-4(e)	Magnitude of Residue: Storage Stability; DuPont Report Title: Freezer Storage Stability of Cymoxanil in Whole Grapes, Juice and Dry Pomace ; DuPont Report Number: AMR 2107-91	43616538	352	Own	
171-4(e)	Magnitude of Residue: Storage Stability; DuPont Report Title: Freezer Storage Stability of Cymoxanil in Whole Fresh Tomato, Juice, Dry Pomace, Puree and Catsup ; DuPont Report Number: AMR 2356-92	43616539	352	Own	
171-4(j)	Nature of Residue: Meat/Milk/Poultry/Eggs; DuPont Report Title: Cattle Feeding Study with Cymoxanil ; DuPont Report Number: CYMO/RES 4	Waiver Requested - No MRID Assigned	352	Own	



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 Product:  
 DuPont Cymoxanil Technical  
 Ingredient

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
171-4(e)(k)(l)	Magnitude of Residue: Storage Stability, Irrigated Crops, Food Handling; DuPont Report Title: Magnitude of Residues of Cymoxanil in Potatoes Following Application of Curzate® M-8 Fungicide at Maximum Label Rates and at Five Times Maximum Use Rates to Investigate the Need for Magnitude of Residue Data in Processed Fractions ; DuPont Report Number: AMR 3296-95	44180759	352	Own	
171-4(l)	Magnitude of Residue: Food Handling; DuPont Report Title: Cymoxanil - Request for Waiver of Potato Processing Study ; DuPont Report Number: CYMO/RES 5	Waiver Requested - No MRID Assigned	352	Own	
171-4(k)	Magnitude of Residue: Irrigated Crops; DuPont Report Title: Magnitude of Cymoxanil Residues in Tomatoes Treated with Curzate® and Grown in Europe ; DuPont Report Number: AMR 2226-92	43616536	352	Own	
171-4(k)	Magnitude of Residue: Irrigated Crops; DuPont Report Title: Magnitude of Cymoxanil Residues in Tomatoes Treated with Curzate® and Grown in Mexico ; DuPont Report Number: AMR 2347-92	43616535	352	Own	
860.15	Magnitude of Residue; DuPont Report Title: Magnitude of Residues of DPX-JE874 and Cymoxanil in Fruiting Vegetables (Except for Cucurbits) Following Application of DPX-KP481 Experimental Fungicide at Maximum Label Rates ; DuPont Report Number: AMR 3740-96	44946427	352	Own	
860.1000 860.1500	Magnitude of Residue; DuPont Report Title: Magnitude of Residues of Cymoxanil and Famoxadone in Fruiting Vegetables Except for Cucurbits Following Application of DPX-KP481 50WG Fungicide at Maximum Label Rates - USA 2000; DuPont Report Number: DuPont-3723	45620301	352	Own	

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Applicant's / Registrant's Name & Address: E. I. DuPont de Nemours and Company, Agricultural Products, P.O. Box 80038, Wilmington, DE 19880-0038	Product: DuPont Cymoxanil Technical

Guideline Reference Number	Guideline Study name:	MIRID Number	Submitter	Status	Note
860.1520	Magnitude of Residue: Processed Food; DuPont Report Title: Magnitude of Residues of Famoxadone and Cymoxanil in Tomato and Its Processed Fractions Following Application of DPX-KP481 Fungicide ; DuPont Report Number: AMR 4355-97	44946428	352	Own	
171-4(k)(l)	Magnitude of Residue: Irrigated Crops, Food Handling; DuPont Report Title: Magnitude of Cymoxanil Residues in Tomato and Tomato Processing Products Derived From Tomatoes Treated With Curzate® and Grown in Italy ; DuPont Report Number: AMR 2225-92	43616537	352	Own	
860.1500 860.1380	Magnitude of Residue; DuPont Report Title: Magnitude of Residues of Famoxadone and Cymoxanil in Cucurbits Following Application of DPX-KP481 Fungicide at Maximum Label Rates ; DuPont Report Number: AMR 4340-97	44946429	352	Own	
860.1500 860.1380	Magnitude of Residue; DuPont Report Title: Magnitude of Residues of Famoxadone and Cymoxanil in Head Lettuce Following Application of DPX-KP481 Fungicide at Maximum Label Rates ; DuPont Report Number: AMR 4339-97	44946430	352	Own	
860.1500	Magnitude of Residue; DuPont Report Title: Magnitude of the Residues of Cymoxanil, Its Metabolite IN-KQ960, and Famoxadone in Head Lettuce Following Application of DPX-KP481 50WG (25% Cymoxanil, 25% Famoxadone) Under Maximum Label Rates - 2004 USA; DuPont Report Number: DuPont-14253	46689501	352	Own	
171-4(k)	Magnitude of Residue: Irrigated Crops; DuPont Report Title: Magnitude of Cymoxanil Residues in Wine Grapes Grown in Europe Following Curzate® Applications ; DuPont Report Number: AMR 2057-91	43616533	352	Own	
171-4(l)	Magnitude of Residue: Food Handling; DuPont Report Title: Magnitude of Cymoxanil Residues in Wine and Grape Products Derived from Grapes Treated with Curzate® and Grown in France ; DuPont Report Number: AMR 2058-91	43616534	352	Own	



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Ingredient					
Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
171-4(k)(f)	Magnitude of Residue: Irrigated Crops, Food Handling; DuPont Report Title: Magnitude of Cymoxanil Residues in Wine and Grape Products Derived from Grapes Treated with Curzate® and Grown in France ; DuPont Report Number: AMR 2058-91 Suppl. 1	44450301	352	Own	
875.2100	Post-Application Exposure, Foliar Dislodgeable Residue; DuPont Report Title: Dissipation of Dislodgeable Foliar Famoxadone and Cymoxanil Residues from Tomatoes Treated with DPX-KP481 ; DuPont Report Number: DuPont-1140	44946432	352	Own	
NA	Supplemental; DuPont Report Title: Occupational Safety Assessment for Post-Application Exposure to Cymoxanil (DPX-T3217) Following Application of DuPont DPX-KP481 50DF Fungicide; DuPont Report Number: DuPont-2376	44944606	352	Own	
132-1	Post-Application Exposure, Foliar Dislodgeable Residue; DuPont Report Title: Reentry Protection: Soil and Foliar Dissipation Requirements for Cymoxanil ; DuPont Report Number: CYMO/ENV 1	Position Paper - No MRID Assigned	352	Own	
231 232	Applicator Exposure, Dermal and Inhalation exposure - outdoor; DuPont Report Title: Worker Exposure Assessment for Cymoxanil Using the Pesticide Handlers Exposure Database; DuPont Report Number: DuPont-1981	44944607	352	Own	
231 232	Applicator Exposure, Dermal and Inhalation exposure - outdoor; DuPont Report Title: Worker Exposure Assessment for Cymoxanil/Mancozeb ; DuPont Report Number: CYMO/GEN 3	44180760	352	Own	
201-1 202-1	Drift Data; DuPont Report Title: Pesticide Field Spray Drift Requirements for Cymoxanil ; DuPont Report Number: CYMO/ECO 1	Position Paper - No MRID Assigned	352	Own	

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**Data Matrix**

Date: October 19, 2007  
 EPA Reg No./File Symbol: 352-591  
 Applicant's / Registrant's Name & Address: Product: DuPont Cymoxanil Technical  
 E. I. DuPont de Nemours and Company, Agricultural Products,  
 P.O. Box 80038, Wilmington, DE 19880-0038

**Ingredient**

Guideline Reference Number	Guideline Study name:	MRID Number	Submitter	Status	Note
NA	Supplemental; DuPont Report Title: Cymoxanil: Acute and Chronic Dietary Exposure Analysis and Risk Assessment ; DuPont Report Number: DuPont-2594	44944608	352	Own	
NA	Supplemental; DuPont Report Title: Acute Dietary Exposure Assessment of Cymoxanil (DPX-T3217); DuPont Report Number: CYMO/TOX 3	44364611	352	Own	

Signature:   
 Linda S. Mullin, Acting Registration Manager  
 Date: 10/19/2007