

## The Turf Pesticides and Cancer Risk Database is Now Online

By Heather Clark, Ph.D., BCERF Research Associate

The BCERF program has recently launched an easy-to-access, searchable online database that provides cancer risk information for chemicals found in over 2,800 turf and lawn care pesticide products. The **Turf Pesticides and Cancer Risk Database** integrates information on chemicals evaluated for carcinogenicity by the U.S. Environmental Protection Agency (EPA) with 111 active ingredients found in turf and lawn care pesticides registered for use in New York State (NYS).

### Search several ways:

Users can search for information several ways: by product (1) or active ingredient (2), or by cancer risk category (3).

### Find cancer risk information:

Cancer risk information in the database is available in several forms. Users can look up or search by the EPA cancer risk category assigned to a particular chemical active ingredient, such as “Carcinogenic to Humans” or “Possible Human Carcinogen.” Detailed descriptions are provided by clicking on the Cancer Risk Categories link in the More Info box on the left side of the page (4).

Additional cancer and other health risk information is included in EPA risk management documents that are available for some but not all of the active ingredients in the database. The Bibliography (5) provides a complete listing of the risk management documents currently available. These documents are also provided on the Results page for each active ingredient search where available. Risk management documents, known as Re-registration Eligibility Decisions, or RED documents, are documents provided by EPA as part of the pesticide re-registration process. For each chemical being re-registered for use in a pesticide product, the documents provide details on how the EPA evaluated

the chemical and its associated human and environmental health risks and determined what levels and types of use would be acceptable.

Additional detailed information about pesticide registration and re-registration is available in the More Info box (6). Information on interpreting cancer risk is also available to view or print (7).

### Find pesticide products:

Since the full names of pesticide products are often long and complicated, a search using one or more keywords (8) enables quick and easy access to corresponding products. Products in the database are limited to those that have ever been registered for turf and lawn use in NYS, and then only those that include active ingredients evaluated for cancer risk by EPA. Cancelled products (9) are included because BCERF focus groups with turf pesticide applicators revealed that many applicators are interested in the risks of products that they may have used in the distant past but no longer use. Product results can be sorted by name alphabetically or by EPA registration number (10).

### Get product details:

Clicking on a product takes you to the Product Details page (11) where product-specific information

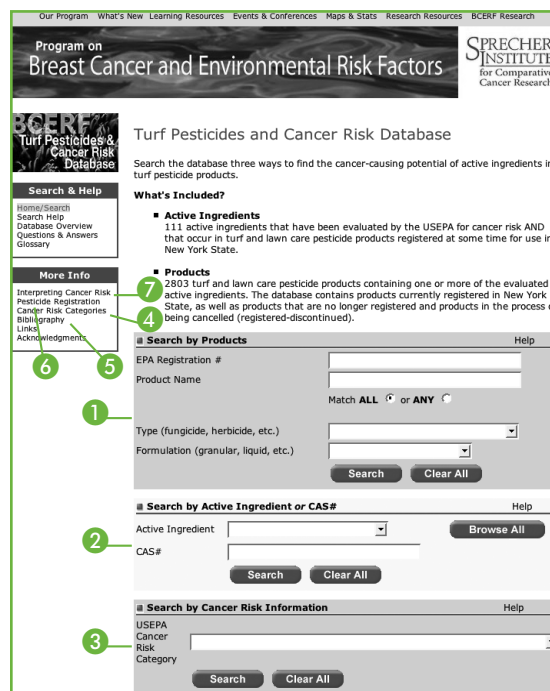


Figure A



Figure B

continued on back side

can be found. Terms on this page and elsewhere in the database are hyperlinked to their definitions in the Glossary (12), which is always a click away on every page in the Search & Help box on the left side of the page. Clicking on a product's active ingredient (13) takes you to the Active Ingredient page for that particular chemical.

### Get active ingredient details:

You can get to the Active Ingredient page from the Product Details page, the Browse All button or the Active Ingredient menu on the Home/Search page, or via the active ingredient list produced from a cancer risk category search. Once here, a variety of active-ingredient-specific information is available, including the cancer risk category (14) and the species of laboratory animal tested and tumor types found (15). An important note on this page informs users that cancer risk classifications are specific to active ingredients, not products, and that a variety of risk information found in EPA risk management documents should be used to estimate the actual cancer risk associated with use of a

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BCERF Turf Pesticides & Cancer Risk Database

New Search

DITHANE T/O RAINSHIELD TURF & ORNAMENTAL FUNGICIDE — 11

EPA Registration #: 62719-402  
 NYS Registration Status: Registered  
 Type: Fungicide  
 Formulation: Dry Flowable

Search & Help 12  
 Home/Search  
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 Glossary

More Info  
 Interpreting Cancer Risk  
 Pesticide Registration  
 Cancer Risk Categories  
 Bibliography  
 Links  
 Acknowledgments

Active Ingredients 13  
 mancozeb 75 %

Additional Product Information  
 Renew Date: 12/31/2006  
 Suspend Date:  
 Start Date: 10/09/2002  
 Flammability: No  
 C  
 Restrictions: Fish  
 Toxicity Description: Turf & Ornamental  
 Use Description: Caution  
 Warning Description: Dermal & Inhalation  
 Warning To Description: Yes  
 Long Island Use: Yes

New Search

Figure C

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Program on Breast Cancer and Environmental Risk Factors

SPRECHER INSTITUTE for Comparative Cancer Research

BCERF Turf Pesticides & Cancer Risk Database

New Search

mancozeb  
 CAS #: 8018-01-7

Modify Search

Cancer Risk Information  
 USEPA Cancer Risk Category: Group B2-Probable Human Carcinogen-Sufficient Evidence from Animal Studies

Interpreting Cancer Risk HTML PDF 14

Species and Tumor Types: Thyroid follicular cell adenomas & carcinomas, combined thyroid follicular cell adenomas and/or carcinomas; Cri: CD (BR) rats (M&F). 15

NOTE: Cancer risk classifications are specific to active ingredients, not products. To arrive at an overall health or cancer risk evaluation for a pesticide product, active ingredient cancer risk information should be used together with other risk and exposure information, such as USEPA Risk Management Decision Documents (REDS, IREDS, TREDS, and others).

SEPA Risk Management Documents 16  
 USEPA risk management decision documents provide chemical-specific risk assessment information for active ingredients evaluated by the USEPA for use in pesticide products. For more information, see Pesticide Registration HTML.

RED Factsheet PDF  
 RED PDF

Products  
 In New York State, mancozeb is found in:  
 13 products Registered  
 7 products Registered-Discontinued  
 16 products Not Registered

View Products

Figure D

particular pesticide product (16). Links to Interpreting Cancer Risk, EPA risk management documents, and turf and lawn care products that include the active ingredient are included on this page.

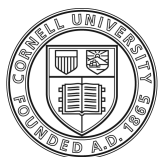
At this time, the *Turf Pesticides and Cancer Risk Database* does not include all active ingredients and associated turf and lawn care products registered in New York State. Cancer risk has not been fully evaluated for many active ingredients. Cancer risk information is not available for all chemicals because federal pesticide registration laws have, until recently, only required full evaluations of cancer risk for chemicals that will be used in pesticides that also have food-crop uses. Federal legislation effective October 1, 2006, now requires that, over time, all chemicals proposed for pesticide registration or re-registration are evaluated for a variety of health risks, including cancer. The process of accumulating new cancer risk information on these chemicals will take many years. The *Turf Pesticides and Cancer Risk Database* will be updated as this information becomes available.

### Acknowledgements

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