



Mary-Ann Warmerdam
Director

Arnold Schwarzenegger
Governor

California Notice 2010-05

POST UNTIL July 22, 2010

NOTICE OF EXPANSION OF REEVALUATION FOR CERTAIN DIAZINON CONTAINING PRODUCTS INTENDED FOR AGRICULTURAL USE

Pursuant to Article 8, Subchapter 1, Chapter 2, Division 6 of Title 3 of the California Code of Regulation, the Director of the Department of Pesticide Regulation (DPR) notices her decision to expand the diazinon reevaluation to include in-season uses as well as dormant season agricultural applications. Interested persons may comment on this decision up to and including the date shown on the top-right corner of this notice to the Department of Pesticide Regulation, Pesticide Registration Branch, 1001 I Street, P.O. Box 4015, Sacramento, California 95812-4015.

REEVALUATION

DPR is hereby expanding its reevaluation of diazinon agricultural use pesticides. This reevaluation involves two registrants and four pesticide products listed below:

Registrant	Brand Name, EPA Reg. No.
Loveland Products	DIAZINON AG600 WBC INSECTICIDE, EPA Reg. No. 66222-103-AA-34704
Makhteshim-Agan Of North America Inc.	DIAZINON 50W, EPA Reg. No. 66222-10-ZA
	DIAZINON AG 500, EPA Reg. No. 66222-9-ZA
	DIAZINON AG 600 WBC, EPA Reg. No. 66222-103-AA

BASIS OF REEVALUATION

In October 2009, DPR's Environmental Monitoring Branch conducted an analysis of 2003-2008 irrigation season surface water monitoring data from agricultural areas of California in order to determine the extent to which diazinon moves offsite into surface waters after irrigation season (i.e., spring, summer, and fall) use. The analysis revealed 637 diazinon detections out of 2,635 samples from water bodies located in the Central Valley (Sacramento Valley, San Joaquin Valley, and Tulare), several areas along the Central Coast (including Salinas Valley, Pajaro, and Santa Maria) and southeastern California (Imperial Valley). Diazinon use in these regions accounted for approximately 90 percent of all agricultural-use diazinon applied statewide. Diazinon was primarily used on lettuce, stone fruit trees, spinach, broccoli, cauliflower, corn, melons, and tomatoes.



While no single statewide aquatic toxicity standard exists for interpreting diazinon concentrations in California surface waters, several of California's Regional Water Quality Control Boards have developed standards that are applicable within their regions, and other standards have been developed by the California Department of Fish and Game (CDFG) and U.S. Environmental Protection Agency. When the diazinon concentrations found in surface water were compared to the current 0.16 micrograms per liter ($\mu\text{g/L}$) aquatic life criteria established by CDFG, the criteria was exceeded in nine percent of all samples.

The highest irrigation season use of diazinon occurs in the Salinas Valley, where applications in the spring and summer months account for 45 to 50 percent of all statewide use. In this valley, the overall surface water diazinon detection frequency was greater than 95 percent. Detection frequency in tributaries during spring and summer was greater than 99 percent, and the 0.16 $\mu\text{g/L}$ CDFG standard was exceeded in over 60 percent of spring samples and over 45 percent of summer samples. Three to four percent of tributary samples had concentrations over 5 $\mu\text{g/L}$. In the fall, the overall detection frequency was greater than 90 percent. Winter samples revealed detections approximately 84 percent of the time, and the 0.16 $\mu\text{g/L}$ standard was exceeded over 23 percent of the time. The full report is available on DPR's Web site at http://www.cdpr.ca.gov/docs/emon/surfwtr/policies/starner_sw08.pdf.

Based on the results of the in-season surface water monitoring data, DPR is expanding the scope of its diazinon reevaluation to include in-season uses as well as dormant season applications of diazinon.

Pursuant to this reevaluation, registrants with agricultural use diazinon pesticides are required to provide the following information to DPR:

- Collect and evaluate all relevant (2005-2009) surface water monitoring data to determine if application of diazinon to specific irrigated fields is resulting in exceedances of water quality objectives.
- Establish crop specific mitigation measures based upon results of submitted monitoring data.

If you have any questions regarding the reevaluation process, please contact Ms. Denise M. Alder by e-mail at <dalder@cdpr.ca.gov> or by telephone at (916) 324-3522. If you have any questions regarding collecting and evaluating surface water monitoring data of irrigated fields, please contact Ms. Sheryl Gill by e-mail at <sgill@cdpr.ca.gov> or by telephone at (916) 324-5144.

Original signed by
Ann M. Prichard, Chief
Pesticide Registration Branch
(916) 324-3931

June 22, 2010

Date

Cc: Ms. Sheryl Gill, Environmental Monitoring Branch, Surface Water Program
Ms. Denise M. Alder, Registration Branch, Reevaluation Coordinator