

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MEMORANDUM

Date: February 3, 2009

SUBJECT: Tetrachlorvinphos. Animal Incident Summary.

PC Code: 083701/083702

Decision No.: 386529

Petition No.: None

Risk Assessment Type: N/A

TXR No.: None

MRID No.: None

DP Barcode: D346882

Registration No.: N/A

Regulatory Action: Registration Review

Case No.: N/A

CAS No.: 22248-79-9

40 CFR: 180.252

Ver. Apr.08

FROM: Kit Farwell, D.V.M. *K Farwell*
Risk Assessment Branch VII
Health Effects Division (7509P)
Office of Pesticide Programs

THROUGH: Michael Metzger, Branch Chief *Michael Metzger*
Risk Assessment Branch VII
Health Effects Division (7509P)
Office of Pesticide Programs

TO: James Parker, Chemical Review Manager
Reregistration Branch 1
Special Review and Reregistration Division (7508P)
Office of Pesticide Programs

Following is a summary of pet incidents associated with tetrachlorvinphos. A more comprehensive pet incident report will be prepared as part of registration review.

Incident Data System: Incidents for the Z-isomer of tetrachlorvinphos (PC code 083702), which is the active registration of tetrachlorvinphos are reported below. Since 1992, 4,576 incidents for tetrachlorvinphos have been received (see Table 1). A total of 363 incidents were coded DA which means that the domestic animal died or was euthanized. There were 206 major incidents in which symptoms may have been life-threatening or caused residual disability.

The remaining incidents were less severe: 988 incidents were classified moderate which means that treatment may have been required but the animal returned to its pre-exposure state of health with no residual disability; 1,684 incidents were classified minor which means that symptoms may have been minimally bothersome and resolved rapidly; for 221 incidents the symptoms were unknown (classified D or DE); and 1,114 incidents were unspecified and may have been either moderate, minor, or were unspecified.

A certainty index is rarely assigned to incidents reported in the Incident Data System (IDS) and the symptoms or signs experienced by the animal may have been unrelated to pesticide treatment or may have been due to misuse of the product.

**Table 1. Tetrachlorvinphos Domestic Animal Incidents in IDS: 1/1/92-10/17/08
PC Code 083702**

Code	Explanation	IDS Individual Cases	Aggregate Summary Module	Total
D	General	47		47
DA	Fatality	35	328	363
DB	Major	11	195	206
DC	Moderate	127	861	988
DD	Minor	77	1607	1684
DE	Unknown	4	170	174
D-C, D, E	Mod, Minor, Unspecified		1114	1114
Subtotal		301	4275	4576

D: domestic animal - used before severity categories were assigned.

NPIC Report: A report of pet incidents prepared by the National Pesticide Information Center for January 1, 2003 through September 19, 2008 was reviewed. Although there were not a lot of reports from NPIC, more details about the cases were provided. Incidents in which the registration number was unknown or multiple products were used were not evaluated.

There were 8 dog incidents which were consistent with OP toxicity; six incidents involved liquid pump or spray and 2 involved flea collars. All of the incidents involved pups and/or smaller-breed dogs: there were 4 Chihuahua or Chihuahua crossbreeds, 3 Pug or Pug crossbreeds, one terrier, and one unidentified breed. Two puppies treated with liquid product died (Chihuahua and unidentified breed).

Ten incidents in cats were consistent with OP toxicity. Of these, 7 incidents involved liquid product and 3 involved flea collars. One cat exposed to liquid product died. None of the incidents in cats involved use of a dog product.