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



OFFICE OF CHEMICAL SAFETY AND  
POLLUTION PREVENTION

OPP OFFICIAL RECORD  
HEALTH EFFECTS DIVISION  
SCIENTIFIC DATA REVIEWS  
EPA SERIES 361

MEMORANDUM

Date: 24 June 2010

SUBJECT: Clothianidin – Human Health Risk Assessment Addressing Proposed Label Amendments.

PC Code: 044309	DP Barcode: D372325
MRID No.: NA	Registration No.: 59639-150
Petition No.: NA	Regulatory Action: Section 3
Assessment Type: Single Chemical, Aggregate	Registration Case No.: NA
TXR No.: None	CAS No.: 210880-92-5
Decision No.: 424067	40 CFR 180.586

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THROUGH: Douglas A. Dotson, Ph.D., Senior Chemist  
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TO: Kable Davis/Venus Eagle (Team 1)  
Insecticide/Rodenticide Branch  
Registration Division (7505P)

Valent U.S.A. Corporation has requested that the label for V-10170 2.13 SC, a flowable concentrate insecticide formulation containing 2.13 pounds clothianidin per gallon, be modified to allow aerial application to cotton, potato, and soybean, and to increase the maximum foliar application rate from 4 fluid oz/A (0.066 lb ai/A) to 6 fluid oz/A (0.1 lb ai/A) for cotton and soybean.

Tolerances currently exist for residues of clothianidin in/on these crops as follows:

- Cotton, undelinted seed.....0.20 ppm
- Cotton, gin byproducts.....4.5 ppm
- Potato (as part of Subgroup 1C).....0.3 ppm
- Potato, chips.....0.6 ppm
- Potato, granules/flakes .....1.5 ppm

Soybean, seed.....	0.02 ppm
Soybean, forage.....	0.02 ppm
Soybean, hay .....	0.02 ppm

Residue chemistry (M. Doherty, D376011, 31 March 2010) and occupational/residential exposure (S. Wang, D374576, 18 June 2010) evaluations of the requested changes were completed by HED.

None of the label changes would result in increased tolerances for these commodities, or in dietary or occupational risks of concern.

There is a general instruction on Page 7 of the label that specifies "Do not apply by air." This instruction should be modified to indicate that aerial application is permissible for cotton, potato, and soybean.



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**Chemical Name:** Clothianidin

**PC Code:** 044309  
**HED File Code:** 14000 Risk Reviews  
**Memo Date:** 6/24/2010  
**File ID:** 00000000  
**Accession #:** 000-00-0135

**HED Records Reference Center**  
6/30/2010