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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: **29 October 2010**

Subject: **Clothianidin. Spinach and Tomato Storage Stability Studies, Submitted as Supplementary Residue Data Pursuant to Conditions of Registration in HED Human Health Risk Assessment of 13 August 2009 (D357034).**

PC Code: 044309
MRID Number: 48170101
Petition Number: NA
Assessment Type: NA
TXR Number: NA
Decision Number: 438878

DP Barcode: D382140
Registration Number: 264-1081
Regulatory Action: Amended Section 3
Registration Case Number: NA
CAS Number: 210880-92-5
40 CFR: §180.586

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Rec'd in RD 11/3/2010

Background

Bayer CropScience has submitted a storage stability study with clothianidin in spinach and tomatoes in response to data deficiencies identified during HED's review of tolerance petitions #8F7413 and 8F7416 (*Clothianidin: Human Health Risk Assessment for Proposed Seed Treatment Uses on Root and Tuber Vegetables (Group 1), Bulb Vegetables (Group 3), Leafy Green Vegetables (Group 4A), Brassica Leafy Vegetables (Group 5), Fruiting Vegetables (Group 8), Cucurbit Vegetables (Group 9), and Cereal Grains (Group 15, except rice).*; D357034; M.A. Doherty; 13 August 2009). The data deficiency was cited in 10.2 of Doherty's risk assessment memorandum as follows:

> **The final reports depicting the frozen storage stability of clothianidin in spinach and tomatoes are required for evaluation by HED. Submission of this report should be a condition of registration.**

The study demonstrated that residues of clothianidin are stable in spinach and tomatoes when stored frozen (≤0°C, with the exception of four days when the freezer's temperature was a maximum of 7.2°C) for up to 28 months (847 days).

HED has reviewed the submitted study, and concluded that it is acceptable for both scientific and regulatory purposes.

Regulatory Conclusion

The spinach and tomato storage stability data deficiency (identified during HED's review of Bayer CropScience's proposed use of clothianidin on spinach and tomatoes, as requested in tolerance petitions #8F7413 and 8F7416) has been resolved.

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R187092

Chemical Name: Clothianidin

PC Code: 044309
HED File Code: 14000 Risk Reviews
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