



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

OCT 7 1987

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: PP#5F3284/5H5475/6F3383-Sethoxydim (Poast) Herbicide
on Fruiting Vegetables, Strawberries and Raspberries-
Amendments of 7/29/87 and 8/28/87

FROM: Stephanie H. Brooks, Chemist *SHB*
Tolerance Petition Section II
Residue Chemistry Branch
Hazard Evaluation Division (TS-769C)

THRU: John H. Onley, Ph.D., Section Head *John H. Onley*
Tolerance Petition Section II
Residue Chemistry Branch
Hazard Evaluation Division (TS-769C)

TO: Robert J. Taylor, PM 25
Fungicide-Herbicide Branch
Registration Division (TS-767C)
and
Toxicology Branch
Hazard Evaluation Division (TS-769C)

Background

BASF Wyandotte Corporation proposed the establishment of permanent tolerances on fruiting vegetables at 4.0 ppm (PP#5F3284) and on strawberries and raspberries at 10.00 ppm (PP#6F3383) for combined residues of 2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one (sethoxydim, Poast) and its metabolites containing the 2-cyclohexen-1-one moiety calculated as parent. Food and feed additive tolerances for residues of sethoxydim and its metabolites were also proposed for tomato puree, tomato paste and dried tomato pomace at 8.0, 24.0 and 12 ppm, respectively (PP#5H5475).

RCB recommended against establishing the proposed tolerances on fruiting vegetables, concentrated tomato products, and dried tomato pomace due to a lack of residue data reflecting aerial application (see deficiencies 1 and 4b of the RCB memo dated 11/25/86). The recommendation was to either submit such data or revise the Section B/label to restrict application to use of ground equipment only. All other deficiencies concerning the residue chemistry had been resolved.

RCB recommended for the establishment of a 5 ppm tolerance for sethoxydim on strawberries and raspberries, instead of the proposed 10 ppm tolerance, and requested a revised Section F (see the RCB memo dated August 20, 1987, PP#6F3383). All other residue chemistry requirements were considered satisfied.

Permanent tolerances have been established for use of sethoxydim on numerous commodities at levels ranging from 0.1 to 75 ppm (40CFR 180.412).

Recommendations

RCB now recommends for the establishment of permanent tolerances for Sethoxydim/Poast as follows:

<u>Commodity</u>	<u>ppm</u>
Fruiting Vegetables	4.0
Strawberries	5.0
Raspberries	5.0
Tomato Puree	8.0 (FAT)
Tomato Paste	24.0 (FAT)
Dried Tomato Pomace	12.0 (FAT)

Present Considerations

The present considerations consist of letters from Jack Graham, BASF Wyandotte, to R.J. Taylor, RD, dated July 29, 1987 and August 28, 1987, a revised section F for PP#6F3383 and draft copies of the label intended for use of Poast Herbicide on fruiting vegetables (PP#5F3284/5H5475). The label now stipulates application by ground equipment only as recommended by RCB. Section F of PP#6F3383 has been revised to proposed a tolerance of 5 ppm on strawberries and raspberries, rather than 10 ppm.

RCB's Comments/Conclusions

Since the petitioner has submitted a revised Section B limiting the use to ground application and a revised Section F proposing a tolerance of 5 ppm on strawberries and raspberries rather than 10 ppm, RCB concludes that all deficiencies relating to PP Nos. 5F3284/5H5475 and 6F3383 have been resolved.

Other Considerations

No Codex, Canadian or Mexican tolerances have been established for sethoxydim in or on strawberries or raspberries. Canadian limits have been established for sethoxydim on tomatoes only. The Canadian and U.S. limits are incompatible. An International Residue Limit Status Sheet is attached.

Attachment: International Residue Limit Status Sheet

TS-769C:RCB:SHB:shb-10/6/87:CM#2:RM804:X1669

cc: R.F., Circu., Brooks, TOX, PP#6F3383, PP#5F3284/5H5475, PM#25, PMSD/ISB
RDI: J. Onley, 10/5/87; K. Arne, 10/6/87

INTERNATIONAL RESIDUE LIMIT STATUS

CHEMICAL

Sethoxydim (Poast)

CODEX NO. _____

CODEX STATUS:

☒ No Codex Proposal
Step 6 or above

Residue(if Step 8): _____

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
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PROPOSED U.S. TOLERANCES:

Petition Nos. 5F3284/5H3383 & 6F3383

RCB Reviewer S. Brooks

Residue: Sethoxydim plus metabolites
containing the 2-cyclohexen-1-one moiety

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
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Strawberries	5
Raspberries	5
Fruiting vegetables	4
Tomato puree	8
Tomato paste	24
Dried tomato pomace	12

CANADIAN LIMITS:

☐ No Canadian limit

Residue: Sethoxydim, including
metabolites containing the cyclohex-2-
enone moiety

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
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tomatoes	0.2
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MEXICAN LIMITS:

☒ No Mexican limit

Residue: _____

<u>Crop(s)</u>	<u>Limit (mg/kg)</u>
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NOTES: _____