

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

## NOV 22 1991

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

#### **MEMORANDUM**

SUBJECT: ID #062719-00131: Trifluralin® in/on Rape: Amended

registration (DP Barcode #D170791; CBTS #8833).

FROM:

W. T. Chin, Ph.D., Chemist

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Tolerance Petition Section III / Chemistry Branch Tolerance Support Health Effects Division (H7509C)

THRU:

P. V. Errico, Section Head Tolerance Petition Section III Chemistry Branch Tolerance Support Health Effects Division (H7509C)

TO:

Joanne Miller, PM #23

Herbicide & Fungicide Branch Registration Division (H7505C)

#### Background

DowElanco has requested an amendment to the registered use of their herbicide, Treflan TR-10 (EPA Reg. #62719-131), for treatment of rape to control most annual grasses. The amendment calls for permitting a <u>late summer or early fall</u> application before planting.

#### Tolerances

Under 40 CFR 180.207, tolerances of 0.05 ppm were established for residues of the active ingredient trifluralin,  $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine, in/on rape seed and rape straw. Tolerances are also established for numerous other rac's ranging from 0.05 to 1.0 ppm.

The <u>Trifluralin Registration Standard</u> is dated 7/3/85; and The <u>Trifluralin Product and Residue Chemistry Reregistration Standard Updates</u> (CBRS's #8100 and 7205; Barcode #D157287 and #D159654) is dated 10/29/91.

### Conclusions

- 1. The nature of trifluralin in/on rape is adequately understood. The residue of concern is trifluralin.
- 2. The existing trifluralin tolerances of 0.05 ppm in/on rape seed and rape straw are adequate to cover the proposed amended use.
- 3. Enforcement methods are available in PAM I and II.
- 4. The petitioner is requested to revise Section B by specifying the original restriction against feeding or grazing of treated rape forage on the amended label.

#### RECOMMENDATION

Pending resolution of Conclusion #4, CBTS has no objection to this amendment which would permit a late summer or early fall application of Treflan® TR-10 on rape at 5.0, 7.5 and 10.0 lbs (= 0.5, 0.75 and 1.0 lb a.i.)/A/crop for soils with coarse, medium and fine textures, respectively.

## DETAILED CONSIDERATIONS

#### Registered Use On Rape

Treflan® EC (4 lbs a.i./gal of 44.5% technical trifluralin) was registered for use on rape to control annual broadleaf and grassy weeds in rape in late fall or early spring at a broadcast rate of 3/4 to 1.0 lb a.i./A/crop. The lower rate was recommended on lighter soil with coarse texture containing organic matter less than 6%; and the higher rate was recommended on soil with fine texture containing 6-15% organic matter. Incorporate the spray to a depth of 3 to 4 inches of soil within 8 hours after application. The petitioner also agreed to a restriction against the feeding or pasturing of treated rape forage (see P. V. Errico's 1/7/81 memo; PP#0E2394).

#### Proposed Amendment

The current proposal is to permit a late summer or early fall application to rape with <a href="TR-10">TR-10</a>, 10% granules, at 5.0, 7.5 and 10.0 lbs (= 0.5, 0.75 and 1.0 lb a.i.)/A/crop for soils with coarse, medium and fine textures, respectively. No restriction on feeding or pasturing of treated forage is included.

By a telephone conversation on 11/19/91, the petitioner (Dr. D. H. Lade) indicated that the Treflan® EC formulation for use on rape and many other crops has been replaced by Treflan TR-10 for years without changing the residue patterns of trifluralin. Based on the information outlined in the following Residue Data section, CBTS concludes that this explanation is acceptable.

## Residue Data

No new residue data are submitted to support this amendment. However, previously residue data indicated that no residue of trifluralin was detected in/on rape seed and straw at application rates of 0.75 to 4 lbs a.i./A (P. V. Errico's 1/7/81 memo).

The Trifluralin Product and Residue Chemistry Reregistration Standard Updates indicates that no additional residue data are required for the established 0.05 ppm tolerances for residues of trifluralin in/on rape seed and rape straw.

The recent field trials conducted with Treflan® 5EC on sugarcane indicated that at an exaggerated rate of 20 lbs a.i./A/crop, no finite residues of trifluralin were detected in sugarcane bagasse, molasses and sugar (W. L. Anthony's 7/22/91 memo).

Environmental Fate Branch has summarized: "Trifluralin does not accumulate in soil even after repeated yearly treatments. Trifluralin is not expected to leach or run off treated areas; it is readily volatilized and photodegraded. The environmental fate of treflan N-nitroso contaminant, NDPA, is also known and is not expected to persist in the environment." (R. V. Moraski's 10/5/81 letter to PM #43 filed in PP#0E2394).

Based on the above information, CBTS concludes that the residue pattern of trifluralin in/on rape seed and straw will not be affected by permitting a late summer or early fall application of Treflan® TR-10 to rape.

However, the petitioner is requested to revise Section B by specifying the original restriction against feeding or grazing of treated rape forage on the amended label.

cc: Circ, RF, PP#0E2394, SF(trifluralin) W.T.Chin, R.B.Quick, PIB/FOD

RDI: P.V.Errico(11/21/91), R.Loranger(11/21/91) H709C: CBTS: CM#2, RM812, 557-4352, W.T.Chin,wc(11/22/91)