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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Kevin Cannon,
8/24/90
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AUG 24 1990

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OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: Product Chemistry Reviews of Dimension Turf
Herbicide (EPA ID No. 524-UGU) and MON-15151
Herbicide (EPA ID No. 524-UGR)

FROM: Alfred Smith, Chemist, *Alfred Smith*
Product Chemistry Review Section
Registration Support Branch
Registration Division (H7505C)

TO: Eugene Wilson, PM Team 23
Fungicide-Herbicide Branch
Registration Division (H7505C)

THRU: Donald R. Stubbs, Acting Section Chief, *Donald Stubbs*
Product Chemistry Review Section
Registration Support Branch
Registration Division (H7505C)

Registrant: Monsanto Agricultural Company

MRID Nos.: 415474-01, -02; 415475-01, -02

CAS No.: 97886-45-8

Chemical Name/Common Name: 3,5-Pyridinedicarbothioic acid,
2-(difluoromethyl)-4-(2-
methylpropyl)-6-(trifluoro-
methyl)-S,S-dimethyl
ester/Dithiopyr

Product Names: Dimension Turf Herbicide (MON-15104);
MON-15151 EC Herbicide

Introduction

Monsanto has submitted amended registrations for the products MON-15104 EC Herbicide and MON-15151 EC Herbicide (Application dated July 2, 1990). The amendments contain product chemistry data in response to deficiencies in product chemistry reviews of February 14, 1990. The submitted data are reviewed below.

Series 62 - Analysis and Certification of Product Ingredients (MRID Nos. 415474-02; 415475-02)

The revisions in the certified limits and the revised Confidential Statements of Formula are included in Confidential Appendix A for the product MON 15151 EC Herbicide and MON 15104 EC Herbicide.

The submitted information is adequate and no additional information is needed for this section.

Physical and Chemical Characteristics

Studies on Storage Stability (section 63-17) and Corrosion Characteristics (section 63-20) are summarized below for each end-use product.

MON-15104 EC Herbicide

Storage Stability and Corrosion Characteristics (MRID No. 415474-01)

The product was placed in quart and gallon, fluorinated and nonfluorinated, polypropylene containers and stored for 12 to 14 months at temperatures of 68 to 80 °F. Product samples were taken and analyzed for the active ingredient at the beginning of the storage period (0 time) and at various intervals thereafter. No significant change was noted in the active ingredient content (0.19-0.63%) after the 12 or 14 months' storage periods.

The study states that examination of the polypropylene jugs during and at the end of the study showed no evidence of deterioration or hardening.

The study is sufficient to fulfill the requirements of sections 63-17 (Storage Stability) and 63-20 (Corrosion Characteristics). Therefore, no additional data are needed for these sections.

MON-15151 EC Herbicide

Storage Stability and Corrosion Characteristics (MRID
No. 415475-01)

The product was placed in quart and gallon, fluorinated, polypropylene containers and stored for 12 months at temperatures of 68 to 80 °F. Product samples were taken and analyzed for the active ingredient at time zero and at various intervals during the storage period. No significant change was noted in the active ingredient (0.37%) after 12 months.

The study states that examination of the containers during and at the end of the study showed no evidence of deterioration or hardening.

The study is sufficient to fulfill the requirements of sections 63-17 (Storage Stability) and 63-20 (Corrosion Characteristics). Therefore, no additional data are needed for these sections.

Summary

There are no outstanding data deficiencies for these products.

Attachment: Confidential Appendix A

Dithiopyr Science Review

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The material not included contains the following type of information:

- Identity of product inert ingredients.
- Identity of product inert impurities.
- Description of the product manufacturing process.
- Description of product quality control procedures.
- Identity of the source of product ingredients.
- Sales or other commercial/financial information.
- A draft product label.
- The product confidential statement of formula.
- Information about a pending registration action
- FIFRA registration data.
- The document is a duplicate of page(s)
- The document is not responsive to the request.

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
