

US EPA ARCHIVE DOCUMENT

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SUBJECT; Product Chemistry Review of CGA-163935 Technical (EPA ID No. 100-EUP-OE)

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APPLICANT; CIBA - GEIGY Corporation

EPA ID No: 100-EUP-OE

MRID NOS: 416042-01, -02, -03, -04

CAS No: 95266-40-3

CHEMICAL NAME; 4-(Cyclopropyl-alpha-hydroxymethylene)-3,5-dioxo-cyclohexanecarboxylic acid ethyl ester

PRODUCT NAME; CGA-163935 Technical

USE; Plant Growth Regulator

INTRODUCTION

CIBA-GEIGY's submission of July 10, 1990 contains a request for an experimental use permit to conduct limited experimental field trials with a new chemical CGA-163935 as active ingredient (ai) in the technical product (TGAI) and the end use product (EP) Primo/Vision Turf Growth Regulator. Product chemistry data are submitted to support the requirements of 40 CFR 158.150 for the TGAI and the EP.

PRODUCT IDENTITY AND COMPOSITION (MRID No. 416042-01)

61-1: Product Identity and Disclosure of Ingredients

For a discussion of the product identity of the ai CGA-163935, see Confidential Appendix A. A Confidential Statement of Formula (CSF, EPA Form 8570-4) which contains the composition of the TGAI is discussed in Confidential Appendix B.

The data satisfy the requirements of 40 CFR 158.155 (Guidelines Reference Number, GRN, 61-1). No additional data are needed.

61-2: Beginning Materials and Manufacturing Process

See Confidential Appendix A for discussion of beginning materials and manufacturing process.

The data satisfy the requirements of 40 CFR 158.160-162 (GRN 61-2). No additional data are needed.

61-3: DISCUSSION OF THE FORMATION OF IMPURITIES

See Confidential Appendix A for a discussion of the formation of impurities.

The data satisfy the requirements of 40 CFR 158.167 (GRN 61-3). No additional data are needed.

ANALYSIS AND CERTIFICATION OF PRODUCT INGREDIENTS (MRID No.416042-02)

62-1: Preliminary Analysis

Five samples of the technical CGA-163935 were examined for the ai and its impurities. A discussion of the results and the analytical methods used are included in Confidential Appendix B.

The data satisfy the requirements of 40 CFR 158.170 (GRN 62-1). No additional data are needed.

62-2: Certified Limits

The certified limits are contained in the CSF and are discussed in Confidential Appendix B.

The data satisfy the requirements of 40 CFR 158.175 (GRN 62-2). No additional data are needed.

62-3: Enforcement Analytical Methods

Adequate enforcement methods are submitted and discussed in Confidential Appendix B under section 62-1 (Preliminary Analysis). No additional data are needed.

PHYSICAL AND CHEMICAL CHARACTERISTICS

The physicochemical properties of CGA-163935 Technical (TGAI) are summarized below (MRID No. 416042-03).

<u>GRN</u>	<u>Property</u>	<u>Description</u>
63-2	Color	Yellow to red-brown
63-3	Physical State	Liquid or Crystals
63-4	Odor	Slightly sweet
63-6	Boiling Point	>270 degrees
63-7	Density	1.215 g/ml at 20 degrees C
63-8	Solubility	g/100 ml): water, 0.28- 2.11 at pH 4.9 -8.2; acetone, 100; ethanol, 100; toluene, 100; n-hexane, 5.0; n-octanol, 100
63-9	Vapor Pressure	1.62x10 ⁽⁻⁵⁾ mm Hg at 25 degrees C
63-10	Dissociation Constant	4.57
63-11	Octanol/Water Partition Coefficient	Log P = 2.44; Kow = 275
63-12	pH	3.3 at 20 degrees C (1% solution in water)
63-13	Stability	Work in progress

The data satisfy the requirements of 40 CFR 158.190 except GRN 63-13 for which work is in progress.

SUMMARY OF DEFICIENCIES

The Applicant reports that work is in progress for the stability data (GRN 63-13). Presumably the study will be forwarded to the Agency when completed.

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ATTACHMENTS;
Confidential Attachments A and B

Page ___ is not included in this copy.

Pages 4 through 13 are not included in this copy.

The material not included contains the following type of information:

- Identity of product inert ingredients.
- Identity of product impurities.
- Description of the product manufacturing process.
- Description of 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.
