

US EPA ARCHIVE DOCUMENT

(1-12-2004)

DATE : 8 / Jan. / 2003

SUBJECT: PRODUCT CHEMISTRY REVIEW OF MP [ ] EP [X] ACTION: 165  
DP BARCODE No. D293203 EPA File Symbol No.: 75095-E  
PRODUCT NAME: MEP 42  
PCC for the AI: 109101, Mepiquat chloride  
COMPANY: HIDE, LLC

FOOD USE [ ] INTEGRATED FORMULATION [ ]

FROM: Harold Podall, Ph.D., Chemist  
Product Chemistry Team  
Technical Review Branch / RD (7505C)

*H. Podall 1/8/04*

*SRW  
01/12/04*

TO: RM 22: Cynthia Giles-Parker / Dennis McNeilly, Risk Manager Reviewer  
Fungicide Branch / RD(7505C)

**INTRODUCTION**

Mr. Lawrence A. Miller of Biologic Inc., Consultant to Hide, LLC is submitting on behalf of Hide, LLC an application for registration of the subject end-use product, MEP 42, Plant Regulator, for use on cotton. The product is claimed to be similar or identical in its composition to Nations Ag II Mepiquat Chloride 4.2% Liquid, EPA Reg.No.72167-4. A CSF(dated 6/30/03) for the basic formulation, a draft of the product label (dated 6/23/03, and MRIDs 460406-01 and 460406-02 for the Group A; Series 830- Product Identity, Composition and Analyses Data and the Group B, Series 830- Physical and Chemical Properties Data, respectively, were provided in support of the application. In addition, a copy of the CSFs (dated 3/30/00 and 3/31/00) for the registered product, 'Nations Ag II Mepiquat Chloride 4.2% Liquid' was obtained for comparison purposes.

**SUMMARY OF FINDINGS**

1. The CSF for the proposed product was compared to that for the registered product and was found to be substantially similar to the basic formulation for the latter.
2. The proposed product employs the same registered source for the active ingredient and the same inert ingredient compositions. The PC Code numbers for the inert ingredients are listed in the 1<sup>st</sup> column of the CSF for the proposed product.
3. The concentration of the active ingredient given on the product label is the same as its nominal concentration, given in the CSF in column 13b in parentheses (to two significant figures), for the mepiquat chloride, in accord with PR Notice 91-2.
- 4 The product chemistry submission contained in MRIDs 460406-01 and 460406-02 were found to meet their regulatory requirements and to be technically acceptable.

**CONCLUSIONS:**

1. The proposed product is substantially similar to EPA Reg.No.72167-4.
2. The CSF, product label, and product chemistry submission were found to meet their regulatory data requirements and to be technically acceptable.

**PRODUCT CHEMISTRY DATA (SERIES 830 Subgroup A & Subgroup B)**

Subgroup A	Data Required Fulfilled	MRID No.
830.1550. Chemical Identity(CSF)	Y	460406-01
830.1600. Beginning Materials	Y	" "
830.1650. Formulation Process	Y	" "
830.1670. Discussion of Impurities	Y	" "
830.1700. Preliminary Analysis	NA	
830.1750. Certified Limits(CSF)	Y	in the CSF
830.1800. Enforcement Analytical Method ( for the active ingredient in the product )	Y	460406-01 employs HPLC/ MS

Subgroup B	Data Required Fulfilled	Value or Qualitat. Descrip.	MRID No.
830.6302. Color	Y	pink	460406-02
830.6303. Physical State	Y	liq uid	" "
830.6304. Odor	NR		
830.6314. Oxidation/Reduction Action	Y	none	" "
830.6315. Flammability	NR	an aqueous solution	
830.6316. Explodability	NR	" "	
830.6317. Storage stability	W		
830.6319. Miscibility	NA		
830.6320. Corrosion Characteristics	W		
830.6321. Dielec. Bkd. Vltg.	NA		
830.7000. pH	Y	6.70 (as a 1% w/w aqueous solution)	460406-02
830.7100. Viscosity	Y	1.084 cs (20 C)	" "

830.7000. Specific gravity	Y	1.001 g/ml (8.345 lb/gal)	" "
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Explanations: Y = The Requirements Were Fulfilled; N = The Requirements Were Not Fulfilled; NA = Not Applicable; G = Data Gap; U = Requires Upgrading; I = Incomplete or In Progress; W = Waived, NR = Not Required