

Date: 18/Sept/1998

SUBJECT: EP [X] MP [] PRODUCT CHEMISTRY REVIEW --ACTION:100
DP BARCODE No.:D246451 REG./File Symbol No. 10182-UUU
PRODUCT NAME: ZA1296 4SC Herbicide
COMPANY: Zeneca AG Products

TO: PM 25: Jim Tompkins/ Jim Stone
Branch:Herbicide
Registration Division (7505C)

FROM: Harold Podall, Chemist *H. Podall*
TRB/RD(7505C)

INTRODUCTION\DESCRIPTION OF SUBMISSION:

Review CSF, Label and GRN Series 61,62 and 63 chemistry data for registration of above product.

SUMMARY OF FINDINGS:

1. This product contains 40% by weight of the active ingredient 2-[4-methylsulfonyl-2-nitrobenzoyl]-1,3-cyclohexanedione

2. The concentration of the active ingredient on the Label agrees with its nominal concentration calculated from the amount present based on the CSF, in accordance with PR Notice 91-2.

3. The certified limits of the a.i. are in accord with 40 CFR 158.175(b)(2).

4. A request for clearance for four of the inert ingredients for food use was sent to Linda Fan on 9/17/98. I sent her MSDSs for three of them if needed to facilitate their clearance. As soon as I hear from her I will notify you regarding their clearance.

5. I called Ms. Kaminski of Zeneca on 9/17/98 and requested a copy of the MSDS for [redacted] in case Linda needs it to clear it for food use. [redacted] is proposed as an alternate biocide for [redacted]

6. I have reviewed the product chemistry GRN Series 61, 62 and 63 information and found them to be complete and technically reasonable.

CONCLUSIONS/RECOMMENDATIONS:

Pending clearance of four inert ingredients for food use, the product chemistry information provided is complete and acceptable from a regulatory and technical standpoint. Details of the product chemistry are provided in the body of this report.

EP [] MP [] PRODUCT CHEMISTRY REVIEW

- 1. Registration 2. Reregistration [], Rereg Case No. _____
- 3. Pesticide Type: a. Fungicide [] b. Herbicide
c. Insecticide [] d. Rodenticide [] e. Antimicrobial []
f. Plant Growth Regulator [] g. Others
- 4. Uses: a. Food b. Non food use []
- 5. Type of Submission: New Resubmission [] Amendment []
"ME-TOO" [] Alternate Formulation [] Repack []
Experimental Use Permit [] Other (Specify) _____
- 6. If "Me-TOO" Registration, this product is [] is not []
similar or substantially similar to EPA's Reg. No.: _____,
If not, comment in Confidential Appendix A on the differences
between the registered and the new source where significant.
- 7. Information to be reviewed:
a. CSF : Basic Alternate []
b. Label c. Product Chemistry

CONFIDENTIAL STATEMENT OF FORMULA, DATED 1 /22 /1998 :

- 8. Type of formulation and the sources of active ingredients:
a. Non-integrated formulation system.....[X]
b. Are all technical grade active ingredients used
registered? • yes [] • no
The a.i. is in the process of being registered.
c. Integrated formulation system..... []
- 9. Basic Properties:
a. Physical state at ambient temperature: liquid suspension
b. Density (or bulk density for solids)/temperature:
10 lb/gal at 20 deg.C

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If yes, the entire formulation is cleared under 21CFR§__

14. For products produced by an integrated formulation system:
- All impurities of toxicological significance have an UCL:
 - yes [] • no [] • not applicable []
 - All other impurities $\geq 0.1\%$ associated with the active ingredient in the product are reported at their nominal concentrations:
 - yes [] • no [] • not applicable [X]

PRODUCT LABEL, EPA RECEIVED / /199 :

15. The active ingredients statement (chemical identities, nominal concentrations) is consistent with the CSF • yes [X] • no []
16. The formulation contains one of the following:
- 10% or more of a petroleum distillate: • yes [] •no [X]
 - 1% or more of methyl alcohol: • yes [] •no [X]
 - sodium nitrite at any level: • yes [] •no [X]
 - a toxic List 1 inert at any level: • yes [] •no [X]
 - arsenic in any form: • yes [] •no [X]
17. If yes to any of the above, does the inert ingredients statement contains a footnote indicating this?
- yes [] • no [] • not applicable [X]
18. The appropriate physical and chemical hazards statement regarding flammability or explosive characteristics of the product are given on the label:
- yes [] • no [] • not applicable [X]
19. The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses:
- yes [X] • no []

PRODUCT CHEMISTRY DATA (SERIES 61 and 62)

20. <u>Chemical IDs/Manufacture/ Analytical Information</u>	<u>Data Required Fulfilled</u>	<u>MRID No.</u>
61-1/830-1550 Chemical Identity	fulfilled	444026-01
61-2/830-1600/-1620/-1650 Starting Materials/ Manufacturing or / formulation Process	" "	" "
61-3/830-1670 Discussion of Impurities	" "	" "
62-1/830-1700 Preliminary Analysis	" "	" "
62-2/830-1750 Certified Limits	" "	see CSF
62-3/830-1800 Enforcement Analytical Method	" "	444026-01c

PRODUCT CHEMISTRY DATA (SERIES 63)

21. <u>Physical/Chemical Properties</u>	<u>Data Required Fulfilled</u>	<u>Value or Qualitative Description</u>	<u>MRID No.</u>
63-3/830-6302 Physical State	fulfilled	liquid suspension	444026-01
63-7/-7300 Density/Bulk density	" "	Sp.g. (20C)=1.2024	" "
63-12/-7000 pH of Product -----	" "	3.07 (1 % susp.) -----	" "
63-14/-6314 Oxidation/Red.	" "	no oxid. or reduc. groups present	" "
63-15a Flammability-Flash Point	" "	198 deg.F	" "
63-15b Flame Extension	N.A.		
63-16 Explodability	N.R.	ZA1296 not class.as an explosive	

63-17 Storage Stability	N.R.	submit. not requir. as per PR Notice 92-5	
63-18 Viscosity	fulfilled	72.8 cp at sheer rate of 100/sec at 20 C	
63-19 Miscibility (With Hydrocarbon solvents)	N.A.		
63-20 Corrosion Characteristics	" "	not corrosive to polyethylene containers	
63-21 Dielectric Breakdown Voltage	N.A.		

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.