DATE OUT: 3/JAN/2001

SUBJECT: **PRODUCT CHEMISTRY REVIEW OF: Technical Product [], End-Use Product [x]**
BARCODE No. : D271545; D268983 ; **CASE No.**: 044573 ;**EPA RECEIVED DATE:** 29/AUG/00;
REG./File Symbol No.: 10182-388; **PRODUCT NAME**: Double Play Selective Herbicide ; **MRIDs # :**
432270-01 & 452816-01 ; **COMPANY NAME**: Zeneca Ag Products, Inc. ;**Action Code**: 674 8-Month
Response to Product Specific Data Call-In

FROM: Paul Horng, Ph. D., Chemist Paul Horng
Product Chemistry Team
Product Reregistration Branch (7508C)
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Office of Pesticide Program
USEPA

TO: Venus Eagle-Kunst, CRM
Product Reregistration Branch (7508C)
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INTRODUCTION:

The registrant, Zeneca Ag Products, Inc., responded to our previous memorandum (Paul Horng; 26/OCT/00) by submitting the supplemental product chemistry data in MRID # 452816-01; the revised Confidential Statement of Formula (CSF), a basic formulation dated 11/DEC/00; to fulfill the product chemistry data requirements for reregistration of the end-use product, Double Play Selective Herbicide, Reg. No. 10182-388.

FINDINGS:

1. The data in MRID # 452816-01 have shown that the product (ID # 14386-11-0) was packaged in four single 8 oz. fluorinated high density polyethylene (HDPE) plastic containers. The test substance and the containers were stored at ambient temperature for 0, 6, 12, and 24 months. After the predesignated storage interval, one container was removed and examined for any sign of deterioration. An aliquot of the product was taken for analysis of the content of the active ingredients using capillary gas chromatography. The concentrations of EPTC, Acetochlor, and R-29148 in the product at initial were 68.2, 16.9, and 2.8%, respectively; the concentrations of the active ingredients in the product after six months of storage at ambient temperature were 68.2, 2.8, and 16.8%, respectively; after 12 months, the concentrations of the active ingredients in the product were 67.9, 2.9, and 17.0%, respectively. No obvious change in concentration of the active ingredients in the product was observed. The nominal concentrations of the active ingredients in the product were within the certified limit range. However, the concentration of R-29148 in the product at initial and six month was 3.5% lower than the lower certified limit. It was on the border line of acceptance. The data satisfy the requirement of the Guideline 63-17 (830-6317, Storage Stability). No additional data are required.

2. The CSF, a basic formulation dated 11/DEC/2000, has been revised as required. The CSF is acceptable.

3. As mentioned in previous review, a minor revision is required for the draft label. (1) A common name "EPTC" should be placed in front of the chemical name in the active ingredient statement. (2) For consistency with other products, the statement under the Storage and Disposal heading should be revised to read as " Do not contaminate water, food, or feed by storage and disposal." The revisions of the draft

label can be done after label review.

RECOMMENDATIONS:

The registrant has satisfied all product chemistry data requirements for reregistration of the active ingredient (EPTC) in the subject product. Once the acetochlor RED has been issued and the required data have been submitted and satisfied, the Agency will have no objection to the reregistration of the end-use product, Double Play Selective Herbicide, EPA Reg. No. 10182-388.

Paul Hornig: Central File (Reg. No. 10182-388).
7508C; P.H.; PRB; SRRD; 3/ JAN/2001; 703-308-8053: <10182-388 >

2

Group B: Series 830- Physical and Chemical Properties (40 CAR 158.190)
MRID # 432270-01.

GUIDELINE NO.(GUN)	DESCRIPTION/ METHODS USED WHERE APPLICABLE AND REFERENCES	Has the data requirement been fulfilled?
-6302 Color.	Data are not required as per PR Notice 92-5.	NR
-6303 Physical State.	Liquid at 20°C.	Yes
-6304 Odor.	Data are not required as per PR Notice 92-5.	NR
-7300 Density/Bulk Density	0.995 g/ml or 8.3 lbs/gal at 20°C.	Yes
-7000 pH	4.8 (1% w/w diluted in deionized water).	Yes
-6314 Oxidation/Reduction Action.	N/A, none of the components used in the formulation are known to be oxidizing or reducing agents.	N/A
-6315 Flammability.	Flash Point 190°F or 88°C. Closed -Cup Method.	Yes
- 6316, Explodability	N/A, the product contains no explosive agent. .	N/A
-6317 Storage Stability	The product (ID # 14386-11-0) was packaged in four single 8 oz. fluorinated high density polyethylene (HDPE) plastic containers. The test substance and the containers were stored at ambient temperature for 0, 6, 12, and 24 months. After the predesignated storage interval, one container was removed and examined for any sign of deterioration. An aliquot of the product was taken for analysis of the content of the active ingredients using capillary gas chromatography. The concentrations of EPTC, Acetochlor, and R-29148 in the product at initial were 68.2, 16.9, and 2.8%, respectively; the concentrations of the active ingredients in the product after six months of storage at ambient temperature were 68.2, 2.8, and 16.8%, respectively; after 12 months, the concentrations of the active ingredients in the product were 67.9, 2.9, and 17.0%, respectively. No obvious change in concentration of the active ingredients in the product was observed	Yes
-7100 Viscosity	5.216 mPascal [Bingham] at 25°C.	Yes
-6319 Miscibility	N/A, the product is not to be diluted with petroleum solvent.	N/A
-6320 Corrosion Characteristics	No visual corrosion on the containers by product was observed during one year of storage.	Yes
-6321 Dielectric Breakdown Voltage	N/A, the product is not designed for use around the electrical equipment.	N/A