



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

September 26, 1997

MEMORANDUM

SUBJECT: New Chemical Screen for Diflufenzopyr (005107). Toxicology, Product Chemistry and Residue Chemistry Data Requirements. [Diflufenzopyr, is also known as SAN 835H (free acid) and SAN 836H (sodium salt)].
DP Numbers: D238413

FROM: *Martha Lamont William Dykstra*
Martha Lamont and William Dykstra
Registration Action Branch I
Health Effects Division (7509C)

THROUGH: Melba Morrow, Branch Senior Scientist *M. Morrow*
Registration Action Branch I *9/26/97*
Health Effects Division (7509C)

TO: Susan Stanton, PM# 23
Herbicide Branch
Registration Division (7505C)

The following toxicology, product chemistry and residue chemistry data, submitted to support the registration for three labels (technical; manufacturing use; end use) of the new chemical Diflufenzopyr for use on corn RACs forage, fodder, and grain (PP#7P4848), have been screened for completeness and general acceptability for scientific review.

<u>Guideline No.</u>	<u>Toxicology Data for Technical</u>	<u>MRID #</u>
81-1	Acute oral toxicity - rat	44170139
81-2	Acute dermal toxicity	44170140
81-3	Acute inhalation toxicity - rat	44170141
81-4	Primary eye irritation - rabbit	44170142
81-5	Primary dermal irritation	44170143
81-6	Dermal sensitization	44170144
81-8-ss	Acute neurotoxicity screening battery (rat)	44170145
82-1	90-day feeding study - rodent	44194104
82-1	90-day feeding study - non-rodent	44194105
82-2	21-day dermal	44194103
82-7	90-day neurotox screening battery (rat)	44194102
83-1	Chronic feeding - non-rodent	44307405

Guideline No. Toxicology Data for Technical**MRID #**

83-2	Oncogenicity study - mouse	44329603 vol. 1-8
83-3(a)	Teratogenicity - rodent	44170116
83-3(b)	Teratogenicity - non-rodent	44170147
83-4	Reproduction, 2-generation	44170148
83-5	Chronic/Oncogenicity	44307404 vol. 1-10
84-2(a)	Gene mutation	44200401, 44170149, 44307448, 44307449
84-2(b)	Structural chromosomal aberration	44170150, 44170151, 44170152
85-1	General metabolism	44307406
85-2	Dermal penetration	not required

Guideline No. Toxicology Data for End Use Product
(Sodium salts of Diflufenzopyr and Dicamba)**MRID #**

81-1	Acute oral toxicity - rat	44194102
81-2	Acute dermal toxicity	44170109
81-3	Acute inhalation toxicity - rat	44170110
81-4	Primary eye irritation - rabbit	44170111
81-5	Primary dermal irritation	44170112
81-6	Dermal sensitization	44170113
82-2	21-Day Dermal	44170114

Guideline No. Residue Chemistry Data**MRID #**

830.7050	UV/Visible absorption	not available
171-2	Chemical identity	(1)
171-4(a)	Nature of the residue - Plants	44170156 vol.1-2, 44170157 vol.1-2
171-4(b)	Nature of the residue - Lactating goats	44170158
	- laying hens	44170159
	Supplemental Information - Plant/animal Residues Overview	44307416
171-4(c)	Residue analytical method	44307414
171-4(d)	Independent lab validation	44307414
	Multi residue Methods	44307415
171-4(e)	Storage Stability	44307417, 44307418
171-4(k)	Magnitude of the residue -	
	crop field trials	44329607
165-1	Confined rotational crop	44170155
171-4(l)	Magnitude of the residue -	
	processed food/feed	44307419

(1) Provided to RD under series 61.

In addition, the following studies were reported as reviewed or not required by the Registration Division (see 8/20/97 Susan Stanton Note to HED):

Guideline No. Product Chemistry Data for Technical**MRID #**

Series 61		44170115
Series 62		44170116
63-2	Color	44170117
63-3	Physical state	44170118

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63-4	Odor	44170119
63-5	Melting point	44170120
63-6	Boiling point	not required
63-7	Density, bulk density, or specific gravity	44170121
63-8	Solubility	44170122
63-9	Vapor pressure	44170123
63-10	Dissociation constant	44170124
63-11	Octanol/water partition coefficient	44170125
63-12	pH	44170126
63-13	Stability	44170127
63-14	Oxidizing or reducing action	44170128
63-15	Flammability	not required
63-16	Explosability	44194103
63-17	Storage stability	not required
63-18	Viscosity	not required
63-19	Miscibility	not required
63-20	Corrosion characteristics	44170129
63-21	Dielectric breakdown voltage	not required

Guideline No. Product Chemistry Data for End Use Product

MRID #

Series 61		44170101
Series 62		44170102
63-2	Color	44170103
63-3	Physical state	44170104
63-7	Density, bulk density, or specific gravity	44170105
63-12	pH	44170126
63-14	Oxidizing or reducing action	44170128
63-16	Explosability	44194103
63-20	Corrosion characteristics	44170129

Based on comparison of the toxicology, product chemistry, residue chemistry guidelines/acceptance criteria (40 CFR §158.340, §158.155-§158.202, and §158.240 respectively) with the data submitted, the requirements have been met and the studies may be assigned for review. The petitioner should be informed about the new product chemistry requirement, 830.7050 UV/Visible absorption.

All other requirements have been met and the studies may be assigned for review.

cc: RAB1 file, Caswell 005107, M. Lamont