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MEMORANDUM:

SUBJECT: Ecological effects associated with the use of Propazine (MILO-PRO 4L Herbicide) on grain sorghum to control weeds

TO: Edith Minor, PM Team Reviewer
Jim Tompkins, Product Manager
Registration Division

FROM: Thomas M. Steeger, Ph.D., Fishery Biologist *Thomas M Steeger 10/15/98*
Environmental Risk Branch IV
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THROUGH: Mah T. Shamim, Ph.D., Chief *M. Shamim*
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Attached please find the data evaluation records for ecotoxicity studies on propazine. These studies include: Guideline 71-1 (MRID 442873-01), Guideline 71-2 (MRID 442873-03), Guideline 71-2 (MRID 442873-02), Guideline 72-1 (MRID 442873-04), Guideline 72-2 (MRID 442873-05), Guideline 72-3 (MRID 442873-06), Guideline 72-4 (MRID 442873-07), Guideline 72-4 (MRID 443276-01), Guideline 72-4b (MRID 443276-02), and Guideline 123-2 (MRIDs 442873-08, 442873-09, 442873-10, 442873-11). Of the thirteen studies submitted, eight were classified as core and fulfilled guideline requirements. Two of the studies (MRIDs 442873-04 and 442873-06) were classified as invalid; these studies did not adhere to recommended guidelines for chemical analyses when precipitate was present. Two of the remaining three studies (MRIDs 442873-05 and 442873-07) were classified as supplemental based on hardness and pH exceeding the recommended guidelines. The final study (MRID 443276-01) was classified as supplemental since it only provided data on analytical methodology and did not provide any data on toxicity.

If you have any questions concerning these data reviews, please do not hesitate to contact me.



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Table A. Summary of ecotoxicological studies involving Propazine submitted for review.

Guideline	Title	MRID #	Classification	Additional data required?
71-1a	Acute oral toxicity of Propazine to bobwhite quail	442873-01	Core	No
71-2a	Acute dietary toxicity of Propazine to bobwhite quail	442873-02	Core	No
71-2b	Acute dietary toxicity of Propazine to mallard duck	442873-03	Core	No
72-1a	Acute toxicity of Propazine to bluegill	442873-04	Invalid	Yes
72-2	Acute toxicity of propazine to <i>Daphnia magna</i>	442873-05	Supplemental	Yes
72-3b	Flow-through shell deposition test with propazine and the eastern oyster	442873-06	Invalid	Yes
72-4a	Early life-stage toxicity of Propazine to the fathead minnow (<i>Pimephales promelas</i>) under flow-through conditions	442873-07	Supplemental	Yes
72-4a	Analytical analysis of propazine during the early life-stage toxicity test with sheepshead minnow (<i>Cyprinodon variegatus</i>).	443276-01	Supplemental	Yes
72-4b	Chronic toxicity of Propazine to <i>Daphnia magna</i> under flow-through conditions.	443276-02	Core	No
122-2	Acute toxicity of Propazine to <i>Anabaena flos-aquae</i>	442873-12	Core	No
122-2	Acute toxicity of Propazine to <i>Selenastrum capricornutum</i> Printz	442873-08	Core	No
122-2	Acute toxicity of Propazine to <i>Navicula pelliculosa</i>	442873-10	Core	No
122-2	14-day static toxicity of Propazine to <i>Lemna gibba</i>	442873-09	Core	No