

US EPA ARCHIVE DOCUMENT

**DATA REVIEW FOR PRIMARY EYE IRRITATION TESTING (870.2400)**

**Product Manager:** 22  
**MRID No.:** 45049106

**Reviewer:** Eugenia McAndrew  
**Study Completion Date:** January 20, 2000  
**Study No.:** 8139

**Testing Facility:** Product Safety Labs  
**Author:** George E. Moore, B.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** GX-612/Equus DF; Lot #427-37; 85.94% Chlorothalonil; tan powder

**Dosage:** 0.1 mL (approximately 0.08-0.09 g)

**Species:** Rabbit; New Zealand albino

**Age:** Adult

**Sex:** 1 male and 2 females

**Weight:** Not reported

**Source:** Davidson's Mill Farm, South Brunswick, NJ

**Conclusion:**

1. **Toxicity Category:** II
2. **Classification:** Acceptable

**Procedure (Deviations from 870.2400):** None

**Unwashed eyes:**

Observations	Number "positive"/number tested							
	Hours				Days			
	1	24	48	72	4	7	10	14
Corneal Opacity	0/3	3/3	3/3	2/3	2/3	2/3	1/3	0/3
Iritis	0/3	2/2	2/3	2/3	2/3	2/3	0/3	0/3
Conjunctivae:								
Redness*	3/3	3/3	3/3	2/3	2/3	2/3	0/3	0/3
Chemosis*	2/3	2/3	2/3	2/3	2/3	1/3	0/3	0/3
Discharge*	3/3	3/3	3/3	2/3	2/3	1/3	1/3	0/3

\*Score of 2 or more required to be considered "positive."

**Summary:** All eyes had conjunctivitis one hour after installation. At 24 hours and 48, all eyes had corneal opacity and 2/3 had iritis. Corneal opacity and iritis persisted in 2/3 eyes through day 7. All irritation cleared by day 14. The study report indicates that blanching of the nictating membrane was observed in all eyes at 24 and 48 hours. One female exhibited ano-genital staining on days 10 and 11 but recovered by day 12.

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