

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: May 18, 1978

SUBJECT: Bicep TM 4.5 L Herbicide Caswell #63

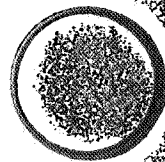
FROM: William Dykstra, Ph.D.  
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TO: Robert Taylor, PM #25  
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*Atrazine / Review #18 /*

*5-18-78 / 2-pages*

*Releasable*



Registrant: Ciba-Geigy Corporation  
P.O. Box 11422  
Greensboro, NC 27409

Action Type: Results of Beltsville Lab Tests on Eye Irritation

Recommendations:

1. The eye irritation study is acceptable as core-minimum data.
2. The correct signal word for the label is Danger, based on the eye irritation criterion. The label should be changed to Danger, followed by the addition of the precautionary labeling statements:

"Keep out of reach of children. Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors or spray mist."

First Aid: "In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse."

\*No RPAR criteria have been exceeded.

Review:

Ocular Irritation (EPA Pharmacology Lab, Beltsville, Md., Sample M.P. 503, 4/4/78).

Test material: Bicep 4.5 L, FL-780380

0.1 gm of test material was instilled into the conjunctival sac of one eye of each of six N.Z. strain albino rabbits with the untreated eye serving as a control, observations and scoring according to Draize at 24, 48, 72 hours and 7 days.

Results:

The product affected the cornea, iris, conjunctival and lids. Conjunctivitis was severe, corneal opacity was mild to moderate and iritis was moderate in 5 of 6 eyes. mishappened lids were noted in 4 eyes and pannus in another. Opacity and conjunctivitis persisted throughout one week in 3 eyes, one of which also showed persistent iritis. One of the 6 eyes only showed conjunctivitis initially.

	<u>Weighted Average Total Scores</u>			
	<u>24 hours</u>	<u>48 hours</u>	<u>72 hours</u>	<u>7th day</u>
Cornea maximum = 80	27	33	23	13
Iris maximum = 10	5	5	4	1
Conjunctiva maximum = 20	17	17	11	4

Classification: Core Minimum Data

Tox Category I: DANGER

(a) Test material is a severe ocular irritant.

R/D Init: GEWhitmore 5/17/78  
WD/ccw

*E* for GEW 5/19/78