



AR226-0426

BIOSEARCH, INC. p.o. box 8598 philadelphia, pennsylvania 19101  
telephone: (215) 848-4499

Submitted to: 3M Company  
3M Center  
St. Paul, Minnesota  
55101

Material: 3M Company - T-1585

Sample Received: August 25, 1976

Date of Report: September 16, 1976

Test: Primary Eye Irritation Study - Rabbits

Object of Test: To determine the degree of irritation, if any,  
which the subject material may produce when  
instilled into the eyes of albino rabbits.  
This test was performed in order to classify  
this material under the Federal Hazardous  
Substances Labeling Act.

Method of Test: The methods employed in the testing, evaluation  
and in the grading of the test material are those  
described in Section 1500.42 - Hazardous Substances  
and Articles, Administration and Enforcement  
Regulations, Federal Register, Vol. 38, No. 187,  
P. 27019, 27 September 1973.

The sample was used as supplied.

Six healthy young adult albino rabbits were used  
in this study. 0.1 gm of the experimental material  
was instilled into the right eyes of the test  
animals while the other eyes remained untreated to  
serve as controls. The test material was not washed  
from the eyes.

The treated eyes were examined at 1, 24, 48 & 72 hrs. &  
5 & 7 days following instillation of the test  
material into the eyes. Interpretation of the  
results was made in accordance with the grading  
system outlined in the "Illustrated Guide for  
Grading Eye Irritation By Hazardous Substances".

Results: The results of the tests are shown in the accompanying  
Table which covers each of the animals treated with  
the test material.

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3M Company - T-1585, Primary Eye Irritation Study.

Conclusion:

Based on the accompanying table, the subject material is a primary ocular irritant within the definition of the Act-Reference: Section 1500.42 (b) (1) (2) P. 27019 and requires cautionary labeling with respect to that section.



Karl L. Gabriel, V.M.D., Ph.D.  
Director

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TABLE 1  
Grades for Ocular Lesions

Material: 3M Company - T-1585, as supplied.

|          | Rabbit No. | Cornea  |      | Iris | Conjunctivae |          |           |
|----------|------------|---------|------|------|--------------|----------|-----------|
|          |            | Opacity | Area |      | Redness      | Chemosis | Discharge |
| 1 hour   | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |
| 24 hours | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |
| 48 hours | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |
| 72 hours | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |
| 5 days   | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |
| 7 days   | 1          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 2          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 3          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 4          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 5          | 4       | 4    | 2    | 2            | 4        | 3         |
|          | 6          | 4       | 4    | 2    | 2            | 4        | 3         |

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