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Project Number -78-1433A

Submitted to:

3M Company
3M Center
St. Paul, Minnesota
55101

Material:

3M Company - T-2297CoC

Sample Received:

9/14/78 Study Initiated: 9/21/78 Study Completed: 10/13/78

Date of Report:

10/19/78

Test:

Acute Oral Toxicity - Rats

Object of Test:

To study the acute oral toxicity in rats of
the subject material.

Procedure:

Two groups of ten (5 male & 5 female) albino rats of the
Sherman-Wistar Strain weighing between 200
and 300 gm were employed in this study. The
rats were deprived of food but not water for
24 hours prior to dosing. Each animal was weighed
and dosed by direct administration of the experimental
material into the stomach by means of a syringe
and dosing needle.

The sample was dosed as a 50% w/v suspension in water.

The following dosage levels were administered:

0.05 gm/kg.
1.5 gm/kg.

Following administration the animals were allowed
food and water ad libitum for the 14 day observation
period during which time the rats were observed
for signs of toxicity and mortalities.

Results:

See Table 1.

Conclusion:

The subject material when studied in male and female
albino rats has an acute oral LD50 greater than
0.05 gm/kg. but less than 1.5 gm/kg.

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Director

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TABLE 1
Acute Oral Toxicity

Material: 3M Company - T-2297CoC, as a 50% w/v suspension in water.

Concentration: 500 mg/ml.

Dosage Level gm/kg	Number of Animals Dosed	Mortalities Days														Total Dead 14 Days	Total Survived 14 Days	Initial Weight gm	Final Weight gm
		1	2	3	4	5	6	7	8	9	10	11	12	13	14				
0.05	5 males	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	225	255
0.05	5 females	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	240	260
1.5	5 males	1	2	1	0	1	-	-	-	-	-	-	-	-	-	5	0	235	-
1.5	5 females	1	1	0	1	0	0	1	0	1	-	-	-	-	-	5	0	240	-

The LD₅₀ is greater than 0.05 gm/kg. but less than 1.5 gm/kg.

No untoward symptoms were observed at the dosage of 0.05 gm/kg. At 1.5 gm/kg the animals were depressed after 2-3 hours and severely depressed or semi-comatose by 24 hours. The animals remained this way until deaths occurred over several days. Gross pathologic examination revealed nothing remarkable.

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