

PROTECTED MATERIAL- MONSANTO INSURANCE COVERAGE LITIGATION

MONSANTO CHEMICAL COMPANY
St. Louis

Date July 3, 1952

To Mr. J. R. Mares
At Texas City

Reference

Subject AN Catalyst Tar

MONSANTO CHEMICAL CO.
ADMINISTRATIVE DEPT.

JUL 11 1952

8 10 11 12 1 2 3 4 5 6 7

Some time ago you requested toxicity tests on the AN Catalyst Tar. This report would show the material is moderately toxic. I do not think we would get any ill effects from handling it in the ordinary method of handling chemicals. If, however, the material were worked at an elevated temperature, ill effects might occur. If you could let me know exactly what the user is going to do with it, I might be able to give you a little more intelligent opinion.

R. Ernest Kelly, M.D.

REX:MPL
Enclosures 2

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DEPOSITION
EXHIBIT
Kelly V-22
2-3-23 JB

Scientific Associates

1474 S. VANDEVENTER AVE. • ST. LOUIS 10, Mo.

June 16, 1952

CERTIFICATE OF ANALYSIS

SUBJECT -

The Minimum Lethal Oral Dose of Acrylonitrile Catalyst Tar
(Monsanto Lot No. B-335) for Laboratory Rats and New Zealand
White Rabbits.

Monsanto Project Number M-59

TEST CONDUCTED FOR -

Monsanto Chemical Company, St. Louis, Missouri

EXPERIMENTAL PROCEDURE -

The Minimum Lethal Oral Dose was found by the introduction of
measured single doses of the diluted material into the stomachs
of mature male and female laboratory rats (Sprague-Dawley
strain) and New Zealand white rabbits by means of a rubber
catheter attached to a hypodermic syringe. The material was
fed as a 1% suspension in corn oil after having been ground to
pass an 80 mesh sieve.

The animals were observed frequently for outward signs of
toxicity and those receiving a lethal dose were autopsied and a
macroscopic examination of the viscera was made.

The data are found in Table I and Table II.

RESULTS -

The Minimum Lethal Oral Dose of Acrylonitrile Catalyst Tar for
laboratory rats was found to be 1.5 to 1.3 grams per kilogram of
body weight.

The Minimum Lethal Oral Dose of Acrylonitrile Catalyst Tar for
New Zealand white rabbits was found to be 0.35 to 0.50 gram per
kilogram of body weight.

SCIENTIFIC ASSOCIATES

Fred M. Younger

BY: FRED M. YOUNGER

STG 1016164

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CONSULTANTS TO THE FOOD, CHEMICAL AND PHARMACEUTICAL INDUSTRIES

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To: Monsanto Chemical Company,
St. Louis, Missouri.
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TABLE I
THE MINIMUM LETHAL ORAL DOSE OF
ACETYLCHOLINE CATALYST TAR
FOR LABORATORY RATS

Animal No. - Sex	Weight Kg.	Dose Gm./Kg.	Weight Change 7 Days After Dosing	Fate
1- Male	0.23	0.10	+ 7.3 %	Survived
2- Male	0.26	0.25	+ 5.0 %	Survived
3- Female	0.19	0.35	+ 6.8 %	Survived
4- Male	0.24	0.50	+ 4.5 %	Survived
5- Female	0.20	0.75	+ 3.4 %	Survived
6- Female	0.18	0.85	- 2.0 %	Survived
7- Female	0.21	0.95	0.0 %	Survived
8- Male	0.25	1.1	0.0 %	Survived
9- Male	0.27	1.2	- 3.7 %	Survived
10- Female	0.19	1.5	- 6.5 %	Survived
11- Female	0.17	1.8		Died--24 Hours
12- Male	0.23	2.0		Died--10 Hours
13- Female	0.19	3.0		Died--12 Hours
14- Female	0.17	3.7		Died--24 Hours
15- Male	0.25	6.0		Died--24 Hours

DISCUSSION

As might be expected there was temporary weight loss near the M.L.D. level of 1.5 to 1.3 grams per kilogram. The tar caused only slight diarrhea and the principal outward symptom of toxicity was lethargy. Survival time was twelve to twenty-four hours.

At autopsy there were instances of spotted livers suggesting possible dysfunction of that organ. Otherwise the viscera appeared normal by macroscopic examination.

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To: Monsanto Chemical Company,
St. Louis, Missouri.
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TABLE II
THE MINIMUM LETHAL ORAL DOSE OF
ACHLONITRILE CATALYST TAR
FOR NEW ZEALAND WHITE RABBITS

Animal No. - Sex	Weight Kg.	Dose Gm./Kg.	Weight Change 7 Days After Dosing	Fate
1 - Male	2.0	0.15	+ 8.0 %	Survived
2 - Female	2.0	0.25	+ 4.0 %	Survived
3 - Male	2.2	0.30	+ 3.7 %	Survived
4 - Male	1.8	0.35		Died—20 Hours
5 - Male	1.9	0.40	- 5.5 %	Survived
6 - Male	2.0	0.50		Died—24 Hours
7 - Female	1.8	0.50		Died—36 Hours
8 - Female	1.9	0.75		Died—24 Hours
9 - Male	2.1	1.00		Died—12 Hours

The M.L.D. was found to be in the range of 0.35 to 0.50 gram per kilogram of body weight.

The rabbits reacted very much like the rats, becoming lethargic within a few hours after dosing. There was no diarrhea.

The vital organs appeared normal by macroscopic examination.

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— Monsanto Chemical Company

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TRANSCRIPT OF PROCEEDINGS

IN THE SUPERIOR COURT
OF THE STATE OF DELAWARE
IN AND FOR NEW CASTLE COUNTY

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MONSANTO COMPANY,	:
	:
Plaintiff,	:
	:
v.	:
	:
AETNA CASUALTY & SURETY COMPANY,	:
al.,	:
	:
Defendants.	:
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Civil Action Number
88C-JA-118-1-CV
NON-ARBITRATION
CASE

KELLY DEPOSITION EXHIBITS

PROTECTED MATERIAL: MONSANTO
INSURANCE COVERAGE LITIGATION

Washington, D. C.

Thursday, February 4, 1993

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