PROJECT NO. [illegible]
REPORT FILE

YOUNGER LABORATORIES

INCORPORATED
108 CLIFF CAVE ROAD SAINT LOUIS, MO. 63129
PHONE: [illegible]

1-30-74
Y-73-273

Toxicologic Investigation of: SANTOMAX Q

TO: MONSANTO COMPANY
St. Louis, Missouri

Lot Number: ----

Date: January 30, 1974

Project No. 1-73-273

ACUTE ORAL TOXICITY

Species: Sprague-Dawley Albino Rats

LD_{50}: 5,650 Mg/Kg 95% Confidence Limits: 5,370 - 5,930 Mg/Kg

CONDITIONS: Single Oral Dose - 20.0% Suspension in corn oil (warmed to 115°F.)

	Dosage Mg/Kg	Initial Weight Male	Initial Weight Female	Mortalities/Dosed Male	Mortalities/Dosed Female	Mortalities/Dosed Combined	Time of Mortality
1	3980	220	230	0/2	0/3	0/5	
2	5010	220	215	0/3	1/2	1/5	Two to eight days with
3	6310	230	210	2/2	2/3	4/5	most deaths within
4	7940	220	225	3/3	2/2	5/5	four days
5							
6							

Signs of Intoxication: Reduced appetite and activity (two to three days in survivors), increasing weakness, collapse, and death.

Gross Autopsy Decedents: Liver discoloration and acute gastrointestinal inflammation.

Survivors (14 Days): Viscera appeared normal.

ACUTE DERMAL TOXICITY

Species: New Zealand Albino Rabbits

LD_{50}: > 7,940 Mg/Kg 95% Confidence Limits: ---- Mg/Kg

CONDITIONS: Applied as a 40.0% suspension in corn oil - 24-hours exposure

	Dosage Mg/Kg	Initial Weight Male	Initial Weight Female	Mortalities/Dosed Male	Mortalities/Dosed Female	Mortalities/Dosed Combined	Time of Mortality
1	5010	---	2.6	---	0/1	0/1	
2	7940	2.1	2.0	0/1	0/1	0/2	
3							
4							
5							
6							

Signs of Intoxication: Reduced appetite and activity for two to four days.

Gross Autopsy Decedents:

Survivors (14 Days): Viscera appeared normal.

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MONS 042746

TEST MATERIAL SANTOMIX 0
LOT NUMBER
PROJECT NO. Y-73-273

ACUTE EYE IRRITATION

Species New Zealand Albino Rabbits

Irritation Score (24, 48, 72 Hour Avg.) 1.3 Classification Slight *

Dose and Conditions 100.0 Mg. applied per se / F.H.S.A. / 24-hours exposure

* F.H.S.A.: NOT classed as an eye irritant

Time of Reading Hours	STRUCTURE	SCORES ANIMAL NUMBER 1	2	3	4	5	6	Mean Score (N/110)	Comments
24	- CORNEA	0	0	0	0	0	0	4.0	Immediate: Slight discomfort 10 Min.: Zero readings 1 Hr.: Zero readings 24 Hr.: Slight erythema and discharge 48 Hr.: All scored zero
	- IRIS	0	0	0	0	0	0		
	- CONJUNCTIVAE	4	4	4	4	4	4		
48	- CORNEA	0	0	0	0	0	0	0.0	
	- IRIS	0	0	0	0	0	0		
	- CONJUNCTIVAE	0	0	0	0	0	0		
72	- CORNEA	0	0	0	0	0	0	0.0	
	- IRIS	0	0	0	0	0	0		
	- CONJUNCTIVAE	0	0	0	0	0	0		
168	- CORNEA	0	0	0	0	0	0	0.0	
	- IRIS	0	0	0	0	0	0		
	- CONJUNCTIVAE	0	0	0	0	0	0		

PRIMARY SKIN IRRITATION

Species New Zealand Albino Rabbits

Irritation Score (24, 72 Hour Avg.) 0.0 Classification Non-Irritating *

Dose and Conditions 0.5 Gram applied per se / F.H.S.A. / 24-hours exposure

* F.H.S.A.: NOT classed as a primary skin irritant

Animal Number	HOUR SKIN	ERYTHEMA 4 I	A	24 I	A	48 I	A	72 I	A	168 I	A	EDEMA 4 I	A	24 I	A	48 I	A	72 I	A	168 I	A
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

INHALATION TOXICITY

Species

Exposure period Mortality Vapor concen.

Avg. chamber temp °C. Avg. chamber rel. humidity %

Chamber capacity L. Air flow rate L./min.

Initial sample size Recovered sample size

Sample vaporized Recovered from condenser

Signs of Intoxication

Gross Autopsy

Decedents

Survivors Days

Test Method Reference ... 0773 ... Submitted by ... HELEN A. ...

MONS 042747