FYI-0794-1036

FYI-94-0001035
INIT 07/14/94

Occidental Chemical Corporation

May 22, 1987

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REC'D
JUN 1 1987
RH Brink

Robert H. Brink
Executive Secretary
TSCA Interagency Testing Committee (TS-792)
Environmental Protection Agency
401 M St., S. W.
Washington, DC 20460

Contains No CBI

Dear Mr. Brink:

Subject: 3-(Trifluoromethyl)aniline (CAS No. 98-16-8)

The enclosed information is being provided by Occidental Chemical Corporation pursuant to the request in the TSCA/ITC notice of April 1, 1987 (52 FR #62, pages 10409-10410).

Enclosures:

1. Hooker Specialty Chemicals Division Data Sheet No. 893-A

Acute Toxicity Studies

2. Acute Dermal - Rabbits (MABTF) 4/20/70
3. Acute Oral Dose Range - Rats (MABTF) 1/20/70
4. Draize Eye-Rabbits (MABTF) 2/6/70

Sincerely,

OCCIDENTAL CHEMICAL CORPORATION

R. L. Ostrozynski
New Business Development Manager

RECEIVED
OPPT CBIC
94 JUL 14 AM 9:15

Enclosures

RLO/ajr
3304K

OxyChem
Industrial & Specialty Chemicals Group
Occidental Chemical Center
360 Rainbow Boulevard South, Box 728, Niagara Falls, New York 14302 716/286-3000

Formula $C_7H_6NF_3$ **Molecular Weight** 161.13

Metaaminobenzotrifluoride is a clear amber colored liquid with an odor resembling naphthalene (moth balls).

HOOKER SPECIFICATIONS

Metaaminobenzotrifluoride	96.0% minimum
Appearance	Clear, light to dark amber liquid

PHYSICAL PROPERTIES

Specific Gravity, 25°C/15.5°C	1.294)10.8 pounds/gallon)
Refractive Index, n25/D	1.4780
Flash Point, closed cup	189°F
Melting Point	5-6°C
Vapor Pressure	20 mm Hg at 86°C 760 mm Hg at 192°C

Metaaminobenzotrifluoride is insoluble in water but soluble in most organic solvents.

USES

An intermediate for the synthesis of azo dyes and pigments, pharmaceuticals and pesticides.

PRECAUTIONARY INFORMATION

Avoid contact with eyes, skin, or clothing. Avoid breathing vapor. Use only with adequate ventilation. In case of eye exposure, flush thoroughly with plenty of water and obtain medical attention. For skin exposure, wash well with soap and water. Launder contaminated clothing before reuse.

FOR MORE INFORMATION WRITE SPECIALTY CHEMICALS DIVISION, HOOKER CHEMICALS & PLASTICS CORP., NIAGARA FALLS, N. Y. 14302

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee express or implied is made regarding the performance or stability of any product, since the manner of use and conditions of storage and handling are beyond our control. No suggestion [illegible] use, nor anything contained herein, shall be construed as a recommendation for its use in infringement of any [illegible]

SHIPPING INFORMATION

Classification Under Dot Regulations	Freight Classification
Combustible Liquid NOS	Rail: CHEM NOI
	Truck: CHEM NOI

Containers

Tank Car and Tank Truck		55 gallon lined steel drum	
Volume	Approximate Net Weight	Net Weight	Gross Weight
10,000 gal	108,000 lbs.	550 lbs.	598 lbs.
4,000 gal	43,000 lbs.		

0 0 0 5

ACUTE DERMAL - RABBITS

m-Aminobenzotrifluoride

[redacted]

FINAL REPORT

Submitted to

Hooker Chemical Company
Niagara Falls, New York

HAZLETON LABORATORIES, INC.
A SUBSIDIARY OF TRW INC.
P.O. BOX 30, FALLS CHURCH, VIRGINIA 22046

April 20, 1970

HAZLETON LABORATORIES, INC.
TRW LIFE SCIENCES CENTER

Sponsor: Hooker Chemical Company **Date:** April 20, 1970

Material: m-Aminobenzotrifluoride
[redacted]

Subject: FINAL REPORT
Acute Dermal - Rabbits
Project No. 157-178

Date Received December 11, 1969.

Description Both compounds were clear yellow, water-like liquids with unpleasant odors.

Purity Assumed 100% active ingredients.

SUMMARY

The test materials, m-Aminobenzotrifluoride and [redacted] were each evaluated for acute dermal toxicity by a single, 24-hour dermal application to abraded and intact rabbit skin at dosage levels ranging from 316 to 10,000 mg/kg of body weight. The acute dermal LD_{50} for m-Aminobenzotrifluoride was 1330 mg/kg of body weight (confidence limits, 554 to 3120 mg/kg). The acute dermal LD_{50} for [redacted] was greater than 10,000 mg/kg of body weight.

Signs of systemic toxicity in m-Aminobenzotrifluoride included ataxia, depression, weight loss, labored respiration, red fluid in urine, and grayish purple eye color. In [redacted] toxic signs included slight to marked ataxia, depression, labored respiration, phonation when handled, red discharge from nasal area, absence of feces, and body weight loss.

Signs of dermal irritation in m-Aminobenzotrifluoride included slight to severe erythema, blanching, slight desquamation, dark brown patches of varying sizes, and some necrosis. In [redacted], slight to severe erythema, slight edema, slight atonia, and slight desquamation were observed.

PROCEDURE

A single, 24-hour dermal application of m-Aminobenzotrifluoride and [redacted] was made to the clipped intact (half the animals) and abraded (half the animals) abdominal skin of four groups (per compound) of four rabbits (New Zealand White) weighing from 2.4 kg. to 3.1 kg. Dosage levels were 316, 1000, 3160, and 10,000 mg/kg for each compound. The animals were wrapped with binders of rubber dam, gauze, and adhesive tape and were provided with collars to preclude ingestion of the compound. Following exposure, the binders were removed, the amount of residue was estimated, and the skin was cleansed with tap water. Observations were recorded for mortality and toxic effects immediately following application; at one, four, and 24 hours; and daily through Day 14 and for dermal effects at 24 hours (all levels) and daily through Day 14 (highest and lowest levels). Gross necropsy was performed on all animals which died during the study and on those sacrificed (intravenous air embolism) at termination. Mortality data were analyzed statistically by the method of Thompson, W. R., Bact. Rev. 11, 115-145, 1947, utilizing the tables of Horn, H. J., Biometrics 12, 311, 1956.

RESULTS

m-Aminobenzotrifluoride

Mortality Data: Values below represent the number of animals dead per number of animals tested, cumulative.

Dose mg/kg	Time of Death: Immediate	Hours 24	Days 2	Days 3-14
316	0/4	0/4	0/4	0/4
1,000	0/4	0/4	0/4	1/4
3,16	0/4	1/4	4/4	
10,000	0/4	4/4		

LD_{50}, mg/kg - 1330

Confidence Limits (95%), mg/kg - 554 to 3120

Principal Toxic Effects:

316 mg/kg - All animals appeared normal. At all succeeding dose levels, signs of ataxia appeared immediately with depression apparent by 24 hours.

1000 mg/kg - Three of the animals improved by Day 5, and one was found dead. There was some terminal body weight loss at this level.

3160 mg/kg - One animal was found dead by 24 hours, and the others showed signs of labored respiration. Red fluid appeared in the urine of [illegible] and the eyes of all were a grayish purple color. By Day 2, all animals were dead.

10,000 mg/kg - All animals were dead by 24 hours.

Dermal Effects:

Compound Residue - Little or no compound remained on the binders at the three lower dose levels upon removal.

Gross Signs of Dermal Irritation - Slight to severe dose-related erythema and blanching were observed by 24 hours on abraded and intact animals at all dose levels.

At the 316 mg/kg level, slight desquamation was observed on all animals. On two animals at this level, necrotic areas on the lower abdomen were observed.

On one animal at the 316 mg/kg level and on three animals at the 1000 mg/kg level, dark brown patches of varying sizes appeared. Slight edema appeared at the 1000 and 3160 mg/kg levels.

Dermal irritation in abraded animals was comparable to that of the intact animals at each level of dosage.

Major Necropsy Findings:

At Death - No abnormalities were noted in the animal which died at the 1000 mg/kg level or in one of the four animals which died at the 3160 mg/kg level.

Examination of the remainder of the animals found dead revealed red fluid in the urinary bladder, edematous bladder walls, and kidneys that were dark red.

At Sacrifice - Absence of body fat marked one animal at the 1000 mg/kg level. Generally, no gross abnormalities were uncovered.

[redacted]

Mortality Data: Death occurred in one 10,000 mg/kg level animal on Day 8. The acute dermal LD_{50} is, therefore, estimated to be greater than 10,000 mg/kg of body weight.

Principal Toxic Effects: At the 316 and 1000 mg/kg dose levels, the animals appeared normal. Slight ataxia was the immediate response of animals given a dosage of 3160 mg/kg, but by 24 hours these animals appeared normal.

Toxic signs at the 10,000 mg/kg level included ataxia (demonstrated immediately), depression by 24 hours, labored respiration, phonation when handled in two animals, red discharge from nasal area in one animal, and absence of feces followed by death in another. Terminal body weight loss was noted in two animals at this level.

Dermal Effects:

Compound Residue - Little or no compound remained on the binders or abdomens of the animals upon removal of the binders at 24 hours.

Gross Signs of Dermal Irritation - At the 316, 1000, and 3160 mg/kg dose levels, slight to severe erythema and slight edema were noted. The degree of erythema and presence or absence of edema bore no relation to whether the skin was abraded or intact and little relation to dose level.

Animals at the 10,000 mg/kg dose level exhibited slight atonia by Day 3 and slight desquamation by Day 5.

Major Necropsy Findings:

At Death - No abnormalities were noted in the animal which died at the 10,000 mg/kg level.

At Sacrifice - At the 316 and 1000 mg/kg levels, no abnormalities were observed.

One animal each at the 3160 and 10,000 mg/kg levels had numerous, cyst-like structures throughout the lobes of the liver.

Submitted by

G. CARL HOLSING, Ph.D.
Director, Agricultural
and Food Chemicals Department
Toxicology-Biosciences Laboratory

Report Preparation: Horwatt
Supervision: Minner

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ACUTE ORAL DOSE RANGE - RATS

m-Aminobenzotrifluoride

[redacted]

FINAL REPORT

Submitted to

Hooker Chemical Company
Niagara Falls, New York

HAZLETON LABORATORIES, INC.
A SUBSIDIARY OF TRW INC.
P.O. BOX 30, FALLS CHURCH, VIRGINIA 22046

January 20, 1970

HAZLETON LABORATORIES, INC.
TRW LIFE SCIENCES CENTER

Sponsor: Hooker Chemical Company **Date:** January 20, 1970

Material: m-Aminobenzotrifluoride

Subject: FINAL REPORT
Acute Oral Dose Range - Rats
Project No. 157-177

Date Received December 11, 1969.

Description Clear, pale yellow liquid.

Procedure Oral intubation to six groups of two male rats each. Initial weight ranged from 249 to 307 grams, and the animals were fasted overnight prior to dosing. Observations for mortality and signs of effect were made immediately after dosing and at one, four, 24, and 48 hours postdose; and the survivors were sacrificed without necropsy. The diluent was corn oil for the three lower levels. The compound was administered at the three higher levels in undiluted form.

Results

Dose	Concentration	Cumulative Mortality				
		Immediate	Hours			
mg/kg	%		1	4	24	48
31.6	2	0/2	0/2	0/2	0/2	0/2
100	2	0/2	0/2	0/2	0/2	0/2
316	2	0/2	0/2	0/2	0/2	0/2
1,000	undiluted	0/2	1/2	1/2	1/2	2/2
3,160	undiluted	0/2	1/2	1/2	2/2	
10,000	undiluted	0/2	2/2			

Range-Finding LD_{50}: 562 mg/kg of body weight.

Principal Toxic Effects No toxic effects were noted at the two lower levels. The following signs were observed prior to total mortality at the 1000 mg/kg level by 48 hours and at the 3160 mg/kg level by 24 hours: labored respiration; cyanosis; prostration; depression (1000 mg/kg level only); ataxia (1000 mg/kg level only); and piloerection (1000 mg/kg level only). At the 10,000 mg/kg level, no toxic signs were observed prior to total mortality at one hour.

Submitted by

G. CARL HOLSING, Ph.D.
Assistant Director, Agricultural
and Food Chemicals
Toxicology-Biosciences Laboratory

Report Preparation: Newman
Supervision: Fink

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DRAIZE EYE - RABBITS

m-Aminobenzotrifluoride

[redacted]

FINAL REPORT

Submitted to

Hooker Chemical Company
Niagara Falls, New York

HAZLETON LABORATORIES, INC.
A SUBSIDIARY OF TRW INC.
P.O. BOX 30, FALLS CHURCH, VIRGINIA 22046

February 6, 1970

HAZLETON LABORATORIES, INC.
TRW LIFE SCIENCES CENTER

Sponsor: Hooker Chemical Company Date: February 6, 1970

Material: m-Aminobenzotrifluoride
[redacted]

Subject: FINAL REPORT
Draize Eye - Rabbits
Project No. 157-179

Date Received December 11, 1969.

Description Both are clear, yellow, water-like liquids with unpleasant odors.

Purity Each assumed to be 100% active ingredient.

SUMMARY

Each test material was evaluated for acute eye irritation by a single application into the left eye of each of nine albino rabbits. Three eyes were washed two seconds after instillation, three eyes were washed four seconds after instillation, and three eyes were unwashed for each material.

The m-Aminobenzotrifluoride material elicited corneal dullness, slight corneal opacity, slight to moderate conjunctival erythema, slight iritis, slight chemosis, and slight to moderate discharge in both washed and unwashed eyes. Severity of eye irritation was not lessened by washing after instillation, but duration of irritation was shortened by washing.

The [redacted] material was only slightly irritating to the eyes and produced slight conjunctival erythema at 24 or 48 hours in all unwashed eyes, in two eyes washed at two seconds, and in one eye washed at four seconds.

PROCEDURE

A single application of 0.1 ml. of each test material was made into the conjunctival sac of the left eye of each of nine albino (New Zealand White) rabbits weighing from 2.2 to 3.0 kg. Initial fluorescein examination confirmed the absence of irritation and corneal damage in all eyes. Three eyes were washed with 20 ml. of tap water at two seconds, three eyes at four seconds, and three eyes were not washed after application. Untreated right eyes served as controls. Observations were recorded at 24, 48, and 72 hours and at four, seven, and 10 days and graded and scored according to J. H. Draize. A copy of the scale for scoring is included. On Day 7 or Day 10, treated eyes were examined with 2.0% fluorescein stain for evidence of corneal damage.

RESULTS

<u>m-Aminobenzotrifluoride</u>

Principal Toxic Effects: Blinking in all eyes and preening in two eyes were noted immediately after instillation of the test material. Five animals exhibited terminal body weight loss.

Gross Signs of Eye Irritation: Individual scores are presented in Tables No. 1 through No. 9.

Unwashed Group - Dullness of the cornea was noted in all eyes from 24 hours through Day 4 or Day 7 followed in one eye by slight corneal opacity on Day 7. Additional signs observed from 24 hours included slight iritis through Day 4 or Day 7, slight to moderate conjunctival

erythema through Day 7, slight conjunctival chemosis through 48 hours or Day 4, and slight to moderate discharge through Day 4.

Washed Groups - Dullness of the cornea or slight corneal opacity followed by dullness was noted at 24 hours or from 24 through 48 hours postinstillation in eyes washed at two seconds. In eyes washed at four seconds, dullness of the cornea or dullness followed by slight corneal opacity was noted from 24 through 72 hours in two eyes, and slight corneal opacity was noted from 24 through 72 hours in one eye. Signs of irritation noted in all washed eyes included slight iritis from 24 through 48 hours, slight to moderate conjunctival erythema from 24 hours through 72 hours or Day 4, slight chemosis from 24 through 48 hours, and slight discharge from 24 through 48 or 72 hours.

Terminal Fluorescein Examination: Negative fluorescein examination on Day 7 or Day 10 confirmed the absence of corneal damage in all eyes.

[redacted]

Principal Toxic Effects: Blinking (eight eyes), preening (four eyes), or holding eye shut (one eye) were observed immediately after instillation of the test material. Three animals exhibited terminal body weight loss.

Gross Signs of Eye Irritation: Individual scores are presented in Tables No. 10 through No. 18.

Unwashed Group - Slight conjunctival erythema was noted at 24 or 48 hours in all eyes.

Washed Groups - Slight conjunctival erythema was noted at 24 hours in two eyes washed at two seconds and in one eye washed at four seconds.

Terminal Fluorescein Examination: Negative fluorescein examination at seven days confirmed the absence of corneal damage in all eyes.

Submitted by

C. CARL HOLSING, Ph.D.
Assistant Director, Agricultural and Food Chemicals
Toxicology-Biosciences Laboratory

Report Preparation: Lambert
Supervision: Minner

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SCALE FOR SCORING OCULAR LESIONS*

(1) Cornea

(A) Opacity-degree of density (area most dense taken for reading)

- No opacity 0
- Scattered or diffuse area, details of iris clearly visible 1
- Easily discernible translucent areas, details of iris slightly obscured . . 2
- Opalescent areas, no details of iris visible, size of pupil barely discernible 3
- Opaque, iris invisible 4

(B) Area of cornea involved

- One quarter (or less) but not zero 1
- Greater than one quarter, but less than half 2
- Greater than half, but less than three quarters 3
- Greater than three quarters, up to whole area 4

Score equals A x B x 5 Total maximum = 80

(2) Iris

(A) Values

- Normal 0
- Folds above normal, congestion, swelling, circumcorneal injection (any or all of these or combination of any thereof) iris still reacting to light (sluggish reaction is positive) 1
- No reaction to light, hemorrhage, gross destruction (any or all of these) . 2

Score equals A x 5 Total maximum = 10

(3) Conjunctivae

(A) Redness (refers to palpebral and bulbar conjunctivae excluding cornea and iris)

- Vessels normal 0
- Vessels definitely injected above normal 1
- More diffuse, deeper crimson red, individual vessels not easily discernible 2
- Diffuse beefy red 3

(B) Chemosis

- No swelling 0
- Any swelling above normal (includes nictitating membrane) 1
- Obvious swelling with partial eversion of lids 2
- Swelling with lids about half closed 3
- Swelling with lids about half closed to completely closed 4

(C) Discharge

- No discharge 0
- Any amount different from normal (does not include small amounts observed in inner canthus of normal animals) 1
- Discharge with moistening of the lids and hairs just adjacent to lids . . . 2
- Discharge with moistening of the lids and hairs, and considerable area around the eye 3

Score equals (A + B + C) x 2 Total maximum = 20

The maximum total score is the sum of all scores obtained for the cornea, iris, and conjunctivae. Total maximum score possible = 110

* Draize, J. H., Appraisal of the Safety of Chemicals in Foods, Drugs, and Cosmetics, Assoc. Food and Drug Officials of the U. S., Austin, Texas, 1959.

Table No. 1 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 162 which received m-Aminobenzotrifluoride.

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	Dull	Dull	0	0	
Area Involved							0	0	
Subtotal (Max. 80)			0	0	0	0	0	0	
Iris			1	1	1	1	1	0	
Subtotal (Max. 10)			5	5	5	5	5	0	
Conjunctivae									
Redness			2	2	2	2	1	0	
Chemosis			1	1	0	0	0	0	
Discharge			1	1	2	1	0	0	
Subtotal (Max. 20)			8	8	8	6	2	0	
Total Score (Max. possible = 110)			13	13	13	11	7	0	

Washed
Unwashed

Body Weight, grams
Initial - 2330
Terminal - 2250

Fluorescein Examination: Initially, negative.

Intervals, negative at 10 days.

Remarks:

Table No. 2 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 163 which received m-Aminobenzotrifluoride.

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	Dull	Dull	1	0	
Area Involved							1	0	
Subtotal (Max. 80)			0	0	0	0	5	0	
Iris			1	1	1	1	0	0	
Subtotal (Max. 10)			5	5	5	5	0	0	
Conjunctivae									
Redness			3	2	2	2	1	0	
Chemosis			1	1	1	1	0	0	
Discharge			1	1	1	1	0	0	
Subtotal (Max. 20)			10	8	8	8	2	0	
Total Score (Max. possible = 110)			15	13	13	13	7	0	

$\bar{X}$ Washed
Unwashed

Body Weight, grams
Initial - 2590
Terminal - 2560

Fluorescein Examination: Initially, negative.

Intervals, negative at 10 days.

Remarks:

Table No. 3 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 164 which received m-Aminobenzotrifluoride.

OBSERVATION	OBSERVATION INTERVALS (Washed / X Unwashed)								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	Dull	Dull	Dull	0	
Area Involved								0	
Subtotal (Max. 80)			0	0	0	0	0	0	
Iris									
			1	1	1	1	0	0	
Subtotal (Max. 10)			5	5	5	5	0	0	
Conjunctivae									
Redness			2	2	2	2	1	0	
Chemosis			1	1	1	1	0	0	
Discharge			1	1	1	1	0	0	
Subtotal (Max. 20)			8	8	8	8	2	0	
Total Score (Max. possible = 110)			13	13	13	13	2	0	

Body Weight, grams
Initial - 2550
Terminal - 2600

Fluorescein Examination: Initially, negative.

Intervals, negative at 10 days.

Remarks:

Table No. 4 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 165 which received m-Aminobenzotrifluoride.

X Washed two secs.
__ Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	0	0	0	0		
Area Involved				0	0	0	0		
Subtotal (Max. 80)			0	0	0	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	0	0		
Chemosis			1	1	0	0	0		
Discharge			1	1	1	0	0		
Subtotal (Max. 20)			8	8	4	0	0		
Total Score (Max. possible = 110)			13	13	4	0	0		

Body Weight, grams
Initial - 3020
Terminal - 3020

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks:

Table No. 5 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 166 which received m-Aminobenzotrifluoride.

X Washed two secs.
__ Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	0	0	0		
Area Involved					0	0	0		
Subtotal (Max. 80)			0	0	0	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	1	0		
Chemosis			2	1	0	0	0		
Discharge			1	1	0	0	0		
Subtotal (Max. 20)			10	8	2	2	0		
Total Score (Max. possible = 110)			15	13	2	2	0		

Body Weight, grams
Initial - 2500
Terminal - 2350

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks:

Table No. 6 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 167 which received m-Aminobenzotrifluoride.

X Washed two secs.
__ Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			1	Dull	0	0	0		
Area Involved			2		0	0	0		
Subtotal (Max. 80)			10	0	0	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	0	0		
Chemosis			1	1	0	0	0		
Discharge			1	1	0	0	0		
Subtotal (Max. 20)			8	8	2	0	0		
Total Score (Max. possible = 110)			23	13	2	0	0		

Body Weight, grams
Initial - 2550
Terminal - 2540

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks:

Table No. 7 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 168 which received m-Aminobenzotrifluoride.

X Washed four secs.
— Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	1	0	0		
Area Involved					2	0	0		
Subtotal (Max. 80)			0	0	10	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	0	0		
Chemosis			1	1	0	0	0		
Discharge			1	1	0	0	0		
Subtotal (Max. 20)			8	8	2	0	0		
Total Score (Max. possible = 110)			13	13	12	0	0		

Body Weight, grams
Initial - 2500
Terminal - 2510

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks:

Table No. 8 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 169 which received m-Aminobenzotrifluoride.

X Washed four secs.
__ Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			Dull	Dull	Dull	0	0		
Area Involved						0	0		
Subtotal (Max. 80)			0	0	0	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	0	0		
Chemosis			1	1	0	0	0		
Discharge			1	1	0	0	0		
Subtotal (Max. 20)			8	8	2	0	0		
Total Score (Max. possible = 110)			13	13	2	0	0		

Body Weight, grams
Initial - 2875
Terminal - 2740

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks:

Table No. 9 - Rabbit eye irritation study using the Draize Scoring System for Rabbit No. 170 which received m-Aminobenzotrifluoride.

X Washed four seas.
— Unwashed

OBSERVATION	OBSERVATION INTERVALS								
	Hours					Days			
	1	4	24	48	72	4	7	10	14
Cornea									
Opacity			1	1	1	0	0		
Area Involved			3	3	3	0	0		
Subtotal (Max. 80)			15	15	15	0	0		
Iris			1	1	0	0	0		
Subtotal (Max. 10)			5	5	0	0	0		
Conjunctivae									
Redness			2	2	1	0	0		
Chemosis			1	1	0	0	0		
Discharge			1	1	0	0	0		
Subtotal (Max. 20)			8	8	2	0	0		
Total Score (Max. possible = 110)			28	28	17	0	0		

Body Weight, grams
Initial - 2365
Terminal - 2440

Fluorescein Examination: Initially, negative.

Intervals, negative at seven days.

Remarks: