

243M
MAW
2-8-56

dictated
A-29-56

REQUEST FOR APPLICATIONS TESTING
AGRICULTURAL AND BIOCHEMICAL RESEARCH

(3) BIOCHEMICAL FILE NO.
T2.31-32-1
(1) K - NUMBER
sample one

NOTE: DO NOT USE BLUE INK TO FILL OUT THIS FORM.
NO ERASURES PERMITTED.

(2) MOLECULAR FORMULA	(4) NAME CRI APPROVED m-715	(7) SOURCE OUTSIDE DOW	(8) LAB REFERENCE
(5) LAB. CODE	(6) SUBMITTED BY	(9) DATE SUBMITTED	REPORT RESULTS TO
DATE SAMPLE PREP.	(10) FIRST LITERATURE REFERENCE	PRODUCT STATE ☐ EXPLORATORY RESEARCH ☐ DEVELOPMENT ☐ TECHNICAL SERVICE ☐ SALES	(11) PATENT INFORMATION PATENT NUMBER CASE NUMBER DISCLOSURE NUM

STRUCTURAL FORMULA (OR GIVE CONSTITUENTS OF MIXTURES AND POLYMERS)

1,2-dibromo 3-chloropropane (K6117)(3.548-1) 47.6 % by wt

Stoddard Solvent

Summary of Toxicological Information
1 TP
Procedures for Safe Handling

RECEIVED

DEC 3 1955

Biochem. Res. Dept.

52.4 % " "

PHYSICAL PROPERTIES THIS SAMPLE BEST KNOWN SAMPLE	MELTING POINT	BOILING POINT	SPECIFIC GRAVITY	ESTIMATED PURITY	SOLUBILITY AT ROOM TEMPERATURE (DETERMINE WHERE POSSIBLE OTHERWISE ESTIMATE)			
		AT	MM	%		< 1%	1-10%	10-25%
APPEARANCE					WATER			
					ACETONE			
MELTING POINT					10% NaOH			
BOILING POINT		AT	MM	%	95% ETHANOL			
APPEARANCE					XYLENE (COMM)			
					KEROSENE			
STOCK ON HAND	AMOUNTS SENT TO		SEAL-BEACH	INFRA-RED				
	MIDLAND							

HANDLING PRECAUTIONS

BIOLOGICAL TEST REQUESTED:

(USE REVERSE SIDE FOR OTHER APPLICATIONS)

☐ GENERAL SCREENING

☒ TOXICOLOGY LAB (REASON OR PROBLEM, ALSO KNOWN USE)

SPECIFIC TESTS:

This material is a nematocidal soil fumigant formulation. What precautions must be observed to handle it safely?

Reesh

DO NOT WRITE BELOW THIS LINE

+C, Eye Contact 100%

+C, Skin " 100%

C, Vapor Rate. MAW 12-9-55

C, Skin Absorp 12-22-55

NOTED BY

DATE

SAMPLE SENT TO

ASSIGNED TO

Maew Rush

BI CHEMICAL RESEARCH DEPARTMENT

EYE CONTACT TEST

K NO.

H 1

FILE NO.

T 2.31-32

MATERIAL

M-715

ACCOUNT NO.

1219-2

TIME CHARGE

7104

CONCENTRATION:

100

DATE OF REQUEST

12, 9, 55

SOLVENT:

PROPYLENE GLYCOL

WATER

RABBIT NO.

618⁰⁷

CAGE NO.

45

COMMENTS	RESPONSE	UNWASHED (LEFT)	WASHED (RIGHT)	DATE AND INITIALS
IMMEDIATE	PAIN	<u>4</u>	<u>2</u>	<u>12/13</u> <u>DL</u>
	CONJUNCTIVA	<u>3</u>	<u>3</u>	
	CORNEA	<u>1</u>	<u>1</u>	
AFTER ONE HOUR (OR _____ HOURS) <u>Probably Mech.</u>	CONJUNCTIVA	<u>3</u>	<u>3</u>	..
	CORNEA	<u>1</u>	<u>1</u>	
	BEFORE STAIN	<u>1</u>	<u>1</u>	
	AFTER STAIN	<u>1</u>	<u>3</u>	
	INTERNAL EFFECTS*			
AFTER 24 HOURS	CONJUNCTIVA	<u>2</u>	<u>2</u>	<u>12/14</u> <u>DL</u>
	CORNEA	<u>1</u>	<u>1</u>	
	BEFORE STAIN	<u>1</u>	<u>1</u>	
	AFTER STAIN	<u>1</u>	<u>2</u>	
	INTERNAL EFFECTS*			
AFTER 48 HOURS	CONJUNCTIVA	<u>2</u>	<u>1</u>	<u>12/15</u> <u>DL</u>
	CORNEA	<u>1</u>	<u>1</u>	
	BEFORE STAIN	<u>1</u>	<u>1</u>	
	AFTER STAIN	<u>1</u>	<u>1</u>	
	INTERNAL EFFECTS*			
AFTER <u>6</u> DAYS	CONJUNCTIVA	<u>1</u>	<u>1</u>	<u>12/19</u> <u>DL</u>
	CORNEA	<u>1</u>	<u>1</u>	
	BEFORE STAIN	<u>1</u>	<u>1</u>	
	AFTER STAIN	<u>1</u>	<u>1</u>	
	INTERNAL EFFECTS*			

*DESCRIBE UNDER COMMENTS

IBM GRADE

3

SIGNED

D Lockwood

DATE

12 11 9 155

Kush BIOCHEMICAL RESEARCH DEPARTMENT

PATCH TEST - SKIN

K. NO. 7m 251

MATERIAL 7m-715

TEST BY SINGLE APPLICATION AS 100

% MATERIAL
SOLN. IN

FILE NO. T. 2.31-32-1

ACCOUNT NO. 1219-2

TIME CHARGE 710x

DATE OF REQ. 12/19/65

RABBIT NO. 76087

CAGE NO. 390

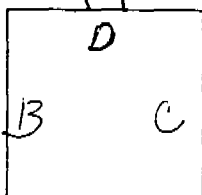
FOR _____ HOURS OR TO BEGINNING EFFECT

APPLIED TO CLIPPED BELLY	SITE	DATE	12/15	12/16	12/19													IBM GRADE
		NO. OF DAYS	0	1	4													
		SYMPTOMS																
START	A	HYPEREMIA																
STOP		EDEMA																
HOURS		NECROSIS																
		COMMENTS*																
START	B	HYPEREMIA	2	2	3													
STOP		EDEMA	1	1	1													2
67 min HOURS		NECROSIS	1	1	1													
		COMMENTS*																
START	C	HYPEREMIA	2	2	3													
STOP		EDEMA	1	1	1													2
12 min HOURS		NECROSIS	1	1	2													
		COMMENTS*																
START	D	HYPEREMIA	2	2	3													
STOP		EDEMA	1	1	1													2
HOURS 1/2		NECROSIS	1	1	2													
		COMMENTS*	⊗															
START	E	HYPEREMIA																
STOP		EDEMA																
HOURS		NECROSIS																
		COMMENTS*																

* COMMENTS ON BACK OF THIS PAGE

9:00

⊗ #3 edema in 1/2 hr.



HYPEREMIA

1. NONE
2. QUESTIONABLE
3. SLIGHT PINK
4. MODERATE PINK
5. RED
6. VERY RED

EDEMA

- NONE
- QUESTIONABLE
- SLIGHT
- MODERATE
- MARKED
- SEVERE

NECROSIS

- NONE
- QUESTIONABLE
- SUPERFICIAL
- CRUSTATION
- MARKED
- DEEP NECROSIS

SIGNED _____

DATE 12/19/65

MAW

Kush

BIOCHEMICAL RESEARCH DEPARTMENT

PATCH TEST - SKIN

K. NO.

#1

MATERIAL

m-715

FILE NO. T. 2.31-32

ACCOUNT NO. 1219-2

TIME CHARGE 7104

DATE OF REQ. 12/9/55

RABBIT NO. 5452

TEST BY SINGLE APPLICATION AS

100

* MATERIAL SOLN. IN

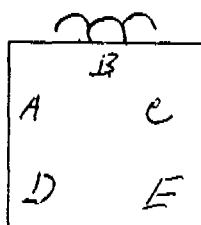
CAGE NO. 340

FOR

HOURS OR TO BEGINNING EFFECT

APPLIED TO CLIPPED BELLY	SITE	DATE	12/14	12/15	12/16	12/17	12/18	12/19	12/20	12/21	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29	12/30	12/31	IBN GRADE
		NO. OF DAYS	0	1	2	5															
		SYMPTOMS																			
START 2h.	A	HYPEREMIA	3	3	3	3															
STOP		EDEMA	4	4	3	3															
HOURS 4h		NECROSIS	1	1	1	2															4
		COMMENTS*																			
START	B	HYPEREMIA	1	3	3	3															
STOP		EDEMA	4	3	3	3															4
HOURS 1		NECROSIS	1	1	1	2															
		COMMENTS*																			
START	C	HYPEREMIA	3	3	3	3															
STOP		EDEMA	5	3	3	2															
HOURS 4		NECROSIS	1	2	2+	2															5
		COMMENTS*																			
START	D	HYPEREMIA	3	3	3	3															
STOP		EDEMA	6	4	3	3															
HOURS 7		NECROSIS	1	2	3	3															5
		COMMENTS*																			
START	E	HYPEREMIA	3	3	3	3															
STOP 5 1/2		EDEMA	5	3	3	3															
HOURS 4		NECROSIS	1	2	3	3															
		COMMENTS*																			

* COMMENTS ON BACK OF THIS PAGE



HYPEREMIA

1. NONE
2. QUESTIONABLE
3. SLIGHT PINK
4. MODERATE PINK
5. RED
6. VERY RED

EDEMA

- NONE
- QUESTIONABLE
- SLIGHT
- MODERATE
- MARKED
- SEVERE

NECROSIS

- NONE
- QUESTIONABLE
- SUPERFICIAL
- CRUSTATION
- MARKED
- DEEP NECROSIS

SIGNED

[Handwritten signature]

DATE 12/19/55

SKIN CONTACT ABSORPTION

[illegible]

SECRET

REMARKS
11/25 4:50 - vessel right happened. moderate rain - in port
#43 - small redness only, mild
#44 - very all happened, left side - mild
#68 - all happened - moderate belly -
#69 - all redness - belly - mild

42/30 = 42 Bright ^{yellow} ~~green~~ to blue
Bright green to yellowish blue, then blue, over 100

SIGNED:

DATE _____

BIOCHEMICAL RESEARCH LABORATORY

SINGLE VAPOR EXPOSURE RECORD

FILE NO. T
 ACCOUNT NO. 1219-2
 TIME CHARGE
 DATE OF REQUEST
 EXPT. NO.
 RUN NO.

K NO. MATERIAL M 715

RAT MALE ROTAMETER NO. = 3.0 CM.

CAVY FEMALE RATE OF AIRFLOW L./MIN.

CAGE 664 BIRTH DATE 9-14-55

EXPOSURE SATURATED VAPOR FOR 2.0 HOURS IN 19L. GLASS JAR
 MG./L. CHAMBER NO.

SAT. VAPOR CALC. CONC. P.P.M. BATH TEMPERATURE Room °C.

TIME AIRFLOW STARTED WT. BUBBLER BEFORE some of the G.

TIME EXPOSURE STARTED 10:45 A.M. WT. BUBBLER AFTER material barrel G.

TIME EXPOSURE ENDED 12:45 P.M. AMOUNT USED in the jar G.

used to C.F.

ANIMAL EAR MARKING	0.0	0.1	1.0	1.1	
DATE <u>12-13-55</u>	<u>264</u>	<u>283</u>	<u>260</u>	<u>180</u>	
<u>12-14-55</u>	<u>236</u>	<u>256</u>	<u>222</u>	<u>Dead 12-14-55</u>	
<u>12-16-55</u>	<u>Died</u>	<u>233</u>	<u>Died</u>	<u>72</u>	
		<u>Dead 12-21</u>			

REMARKS:

Very noisy & unsteady when removed.

SIGNED:

H. H. Orskov

DATE

12-21-55

BIOCHEMICAL RESEARCH LABORATORY

SINGLE VAPOR EXPOSURE RECORD

FILE NO. Y
 ACCOUNT NO. 1219-2
 TIME CHARGE _____
 DATE OF REQUEST _____
 EXPT. NO. _____
 RUN NO. _____

K NO. _____ MATERIAL M-715
☒ RAT ☒ MALE ROTAMETER NO. _____ = 30 CM.
☐ CAVY ☐ FEMALE RATE OF AIRFLOW _____ L./MIN.

CAGE 662 BIRTH DATE 9-15-55

EXPOSURE SATURATED VAPOR P.P.M. _____ FOR 1.0 HOURS IN 19L. GLASS JAR
 _____ MG./L. CHAMBER NO. _____

SAT. VAPOR CALC. CONC. _____ P.P.M. BATH TEMPERATURE Room °C.

TIME AIRFLOW STARTED _____ WT. BUBBLER BEFORE same as before g.

TIME EXPOSURE STARTED 1:15 P.M. WT. BUBBLER AFTER material placed g.

TIME EXPOSURE ENDED 2:15 P.M. AMOUNT USED in the jar g.

ANIMAL EAR MARKING	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>1.1</u>	
DATE/2-13-55	<u>213</u>	<u>300</u>	<u>256</u>	<u>214</u>	
<u>12-14-55</u>	<u>203</u>	<u>300</u>	<u>247</u>	<u>Killed 12-14-55</u>	
<u>12-16-55</u>	<u>181</u>	<u>270</u>	<u>219</u>	<u>Killed 12-16-55</u>	
<u>12-21-55</u>	<u>181</u>	<u>250</u>	<u>197</u>	<u>Killed 12-21-55</u>	
<u>12-27-55</u>	<u>17-1</u>	<u>152</u>	<u>193</u>	<u>Killed 12-27-55</u>	
<u>1-4-56</u>		<u>293</u>	<u>236</u>		
<u>1-9-56</u>		<u>303</u>	<u>250</u>		
	<u>O.K.</u>	<u>14 killed</u>			

REMARKS:

Drowsy & unsteady when removed

SIGNED:

R.O.M.

DATE

1-9-56

BIOCHEMICAL RESEARCH LABORATORY

SINGLE VAPOR EXPOSURE RECORD

FILE NO. T
 ACCOUNT NO. 1219-2
 TIME CHARGE _____
 DATE OF REQUEST _____
 EXPT. NO. _____
 RUN NO. _____

K NO. _____ MATERIAL M-715
☒ RAT ☒ MALE ROTAMETER NO. _____ = 3.0 CM.
 CAVY FEMALE RATE OF AIRFLOW _____ L./MIN.
 CAGE 673 BIRTH DATE 9-15-55
☒ SATURATED VAPOR ☒ 19L. GLASS JAR
 EXPOSURE _____ P.P.M. FOR 0.5 HOURS IN _____
 _____ MG./L. CHAMBER NO. _____

SAT. VAPOR CALC. CONC. _____ P.P.M. BATH TEMPERATURE Room, °C.

TIME AIRFLOW STARTED _____ WT. BUBBLER BEFORE series of 4 G.
 TIME EXPOSURE STARTED 2:45 P.M. WT. BUBBLER AFTER material found G.
 TIME EXPOSURE ENDED 3:15 P.M. AMOUNT USED in glass jar G.
used 10 C.H.

ANIMAL EAR MARKING	0.0	0.1	1.0	1.1	
DATE <u>12-13-55</u>	231	254	266	237	
<u>12-14-55</u>	221	237	260	Killed 12-14-55	
<u>12-14-55</u>	Died	230	253	Path. Ex. No.	
<u>12-21-55</u>		214	225	72	
<u>12-27-55</u>		215	241		
<u>1-4-56</u>		Died 12-30	279		
			286		
			Killed		

REMARKS:

slightly Drowsy when removed.

SIGNED:

R. O. L.

DATE

1-6-56

UNIT INDEX

Effects resulting from eye contact, skin contact, and inhalation are given. Hazards, precautions for safe handling, and first aid measures are discussed.

INDEX HEADING

C.R.I. Name: M-715

1,2-Dibromo-3-Chloropropane

Stoddard Solvent

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