

## FILE FOLDER

### DESCRIPTION ON TAB:

military working

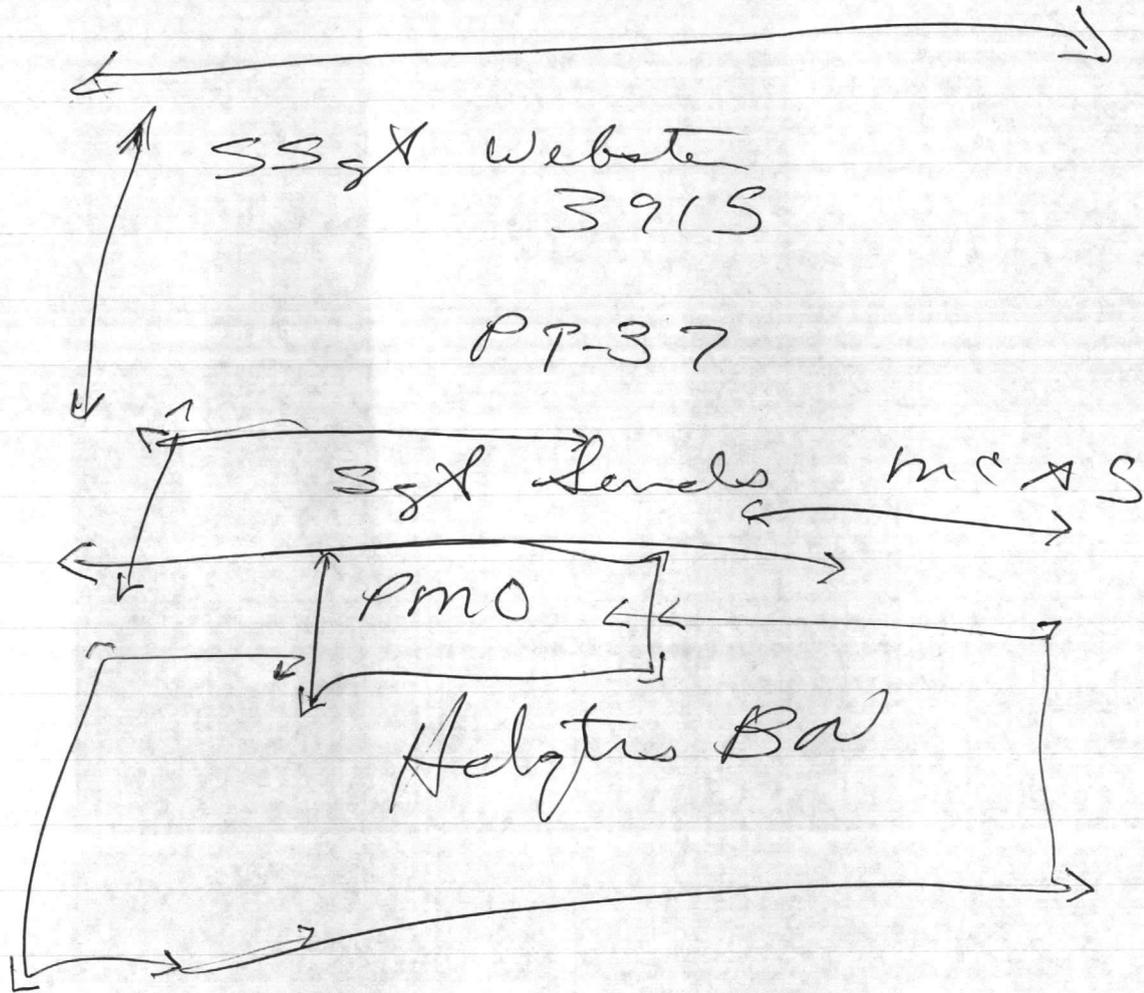
Dogs. Dr P

**Outside/inside of actual folder did not contain hand written information**

**Outside/inside of actual folder did contain hand written information**

**\*Scanned as next image**

Day container - not He



Tom - sent

- ltr to public works

< Dermotone III - doz dip

- wanted to pipe doz dip to sanitary sewer,

- aberdeen - Dr. adj pW to 9/10 let stand 1 to 2 days,

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3915 Sgt Webster

20 June 88  
to Sam Hy.

Odams Flea off Shepard	BPA Ry
Vel-Derm flea & Tick	BPA Ry
Poro mite	BPA Ry
Vestal LPH	BPA Ry

10/20/2020

10/20/2020

10/20/2020  
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10/20/2020  
10/20/2020

## The Dermatom 3 Saga

Save all these papers.

8-21-87 went to PT-37 met Cpl Valpe, Sgt King (X3915) Military Work. Doza and Jimmy Kellum, Insect Vector (X5761) and Mr Beasley, BMO, P&E (X5794) and Mr Sawyer, BMO. They wanted to know if they could get approval for a drain to be installed in their Dog Dip Tank. Previously, they were digging out contents with a bucket and then pouring it into dog pen drains which go to HP WWTP.

I told them I would let them know!  
Little did I know how long it would take and how many people I would have to talk to in order to find out proper disposal for Dermatom 3.

10-8-87 Finally got answer from U.S. Army.

Environmental Hygiene Agency, Said to adjust pH to 9-10, let stand 1-2 days, then discharge to Sanitary Sewer.

24

18

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192

24

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432

400

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832

## The Dermatms Saga

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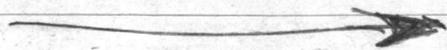
832

28 Sep 87

0830

Mark Henderson

referred me to  
DEM - water Quality



DEM - Water Quality: 0840

733-5083

Randy Jones

gave him name of dog dip:  
he or his office will call  
me back.

call w/lin. after Regional Office :: 0855  
Preston Howard } (919) 256-4161  
Ted Bush } in staff meeting



Ted Bush - will check.

1040

I will call him after lunch.

1405

Call Pest Cont. Bd. D of Ag. (919) 733-3556  
will specify disposal.

Bill McClellan 1415 733-7366

out of office He will return call

6850 00 285 8012

Item Number 4316 62

What kind of solvent (PD 680)

Is Dool Hay Waste ID No.

0830 , 29 Sep 87

Mr Bill McClellan 733-7366

NOT IN, will Return my call.

Returned call at 0900

Mr. McClellan (not a chemist)

1. H.W. - strictly speaking, dispose of as H.W.
2. Use a systemic pesticide i.e. Pro Spot - Nowastes
3. empty onto grassy area after its toxicity / persistence is very low.

J.

Ms. Gladney 1-800-255-4456 (Kansas City)

Stability data - in concrete vats. 40 da.

disposal - regs vary

best bet. call NC Pest. Board

Spray on soil - 30 days - gone.

Dr. Hillman

Dr. Jim Arends, NCSU

Ext Entomologist

737-2703

N.C. Pesticide

Info for EPA Reg. 405.

Susan Sheets

733-3556

8-24-87

ms. Betty Frazelle

Librarian x 4078

Do not have C.A.S. Registry N<sup>o</sup>'s

ECU Allied Health Sciences Library

(96) 919-757-6961

"...Toxic pollutants referred to in Table 1  
of Committee Print Numbered 95-30 of the  
Committee on Public Works and Transportation  
of the House of Representatives

43542  
3483  

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47025

2240 = 1.  
1900

22458  
21084  

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43542  
1,08

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3483.36

1757  
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21,084

6000  
3760  

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2240

1.4  

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1928.00  
19  

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90  

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76  

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100

Marlo Oycok HQ MC AV 227-1890

Who you gonna call?

Armed Forces Post Met. Board

Bob Wardwell, AFPMB

(202) 427-5365 Defense Bd Met. Ext. Service

NOT IN He will call me after 1 pm today.

— He called at 1240 pm today.

Army Environment Hygiene Agency

Aberdeen Prov. Ground.

- Ken Olds } Postwide Hotline  
Ed Evans } AV 584-4131

If they need help, call Bob Wardwell

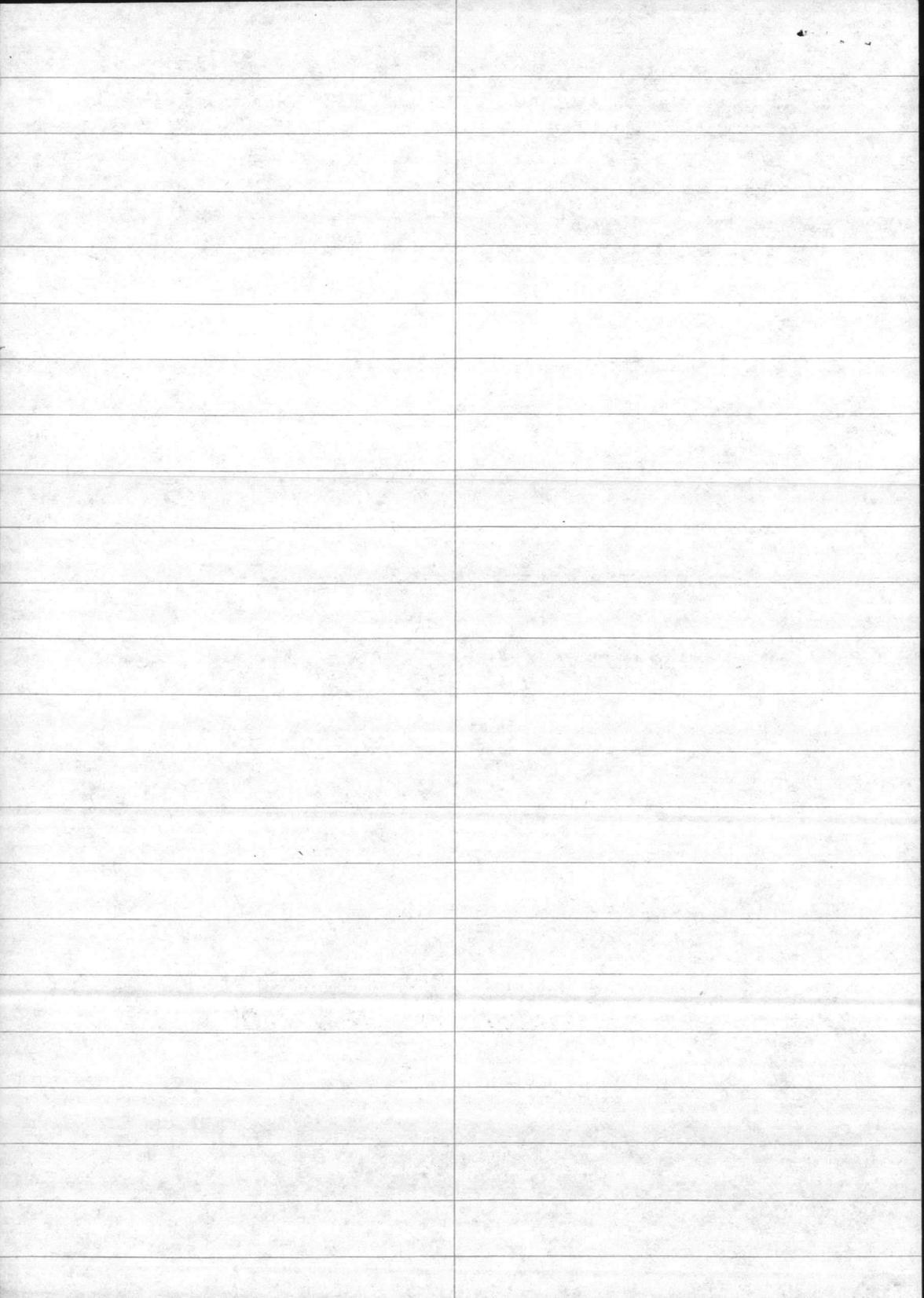
✓ Ken Olds called. <sup>1545</sup> Dr. Tarseny (EPA) working on it.  
Computer search.

— ~~Called~~ Mrs Olds called me 10-7-87 @ 1335

I was gone to MCAS-H with Glenece Smith

— I returned his call on 10-8-87 @ 1300.

AV 584-3773



Answer:

to hydrolyze <sup>the</sup> chlorophosphates

Add NaOH to pH 9-10 (or any thing to pH 9-10)

Set 1 or 2 days

Discharge to Sanitary Sewer.

- Ray Krueger best Disposal Section, EPA

Use of  $\left\{ \begin{matrix} KOH \\ NaOH \end{matrix} \right\}$  would produce heat

- 1) Go to self service. see what bases are available for pH adjustment.
- 2) Get sample from the vat at PT-37. Check pH while there.
- 3) Return to lab and determine qty's necessary for pH adjustment.

[ Antidote for NaOH ingestion is 1% acetic acid ]

"major kinodes"

DATE: 17 Nov 87

FROM: Director, NREAD

TO: BMO

SUBJ: Dog Dip Tanks and its contents of Dermaton 3 (Trademark) at PT-37

- REF: a) 21 Aug 1987 meeting at PT-37 among Military Working Dog Handlers, Insect Vector ~~personnel~~<sup>representative</sup>, BUAINI P & E personnel, and NREAD & representative
- b) 29 Sep 1987 telephone conversation between Mr. Bill McClellan, NCDA, Pest Control Board and Mr. Tom Barber, NREAD
- c) 8 Oct 1987 telephone conversation between Mr. Ken Olds, U.S. Army Environmental Hygiene Agency (USA-EHA) and Mr. Tom Barber, NREAD

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TO:

SUBJ:

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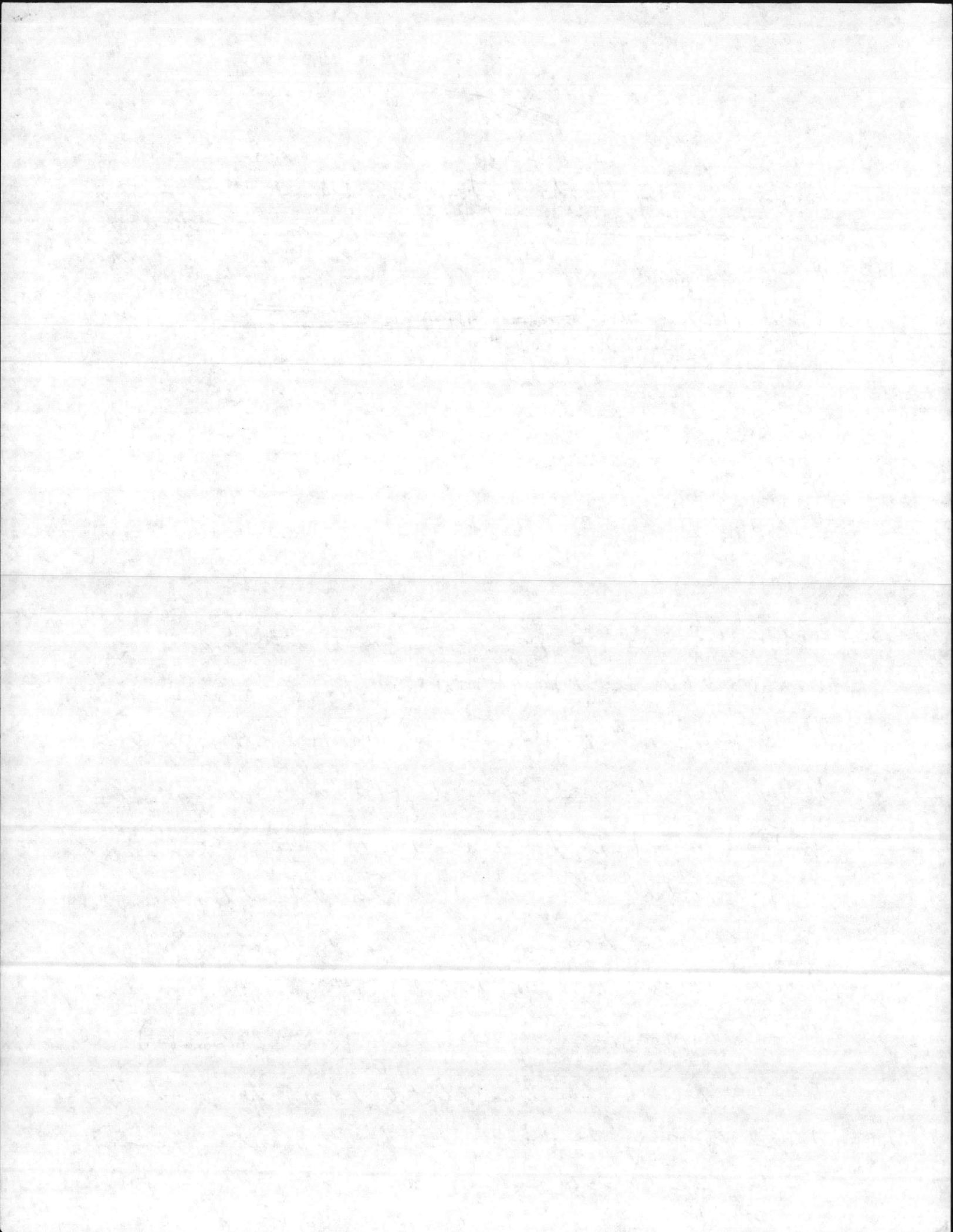
1. ~~THE~~ NREAD personnel have reviewed <sup>the</sup> B MAINT P & E <sup>work</sup> request from PMO for the dog dig tank to be plumbed to the sanitary sewer. This task was done because of the unknown effect of ~~dumping~~ <sup>waste</sup> Dermaton 3 (Trademark) ectoparasiticide on the wastewater treatment plant. Proper disposal of Dermaton 3 (Trademark) to the sanitary sewer is presented in paragraph (3). <sup>work</sup> The request is discussed in paragraph (2). Alternatives to ~~this~~ Dermaton 3 (Trademark) are presented in paragraph (4). It is requested that BMO review this report and forward it to PMO.



~~city, (initially)~~  
2. NREAD would concur ~~&~~ with the work request - asking for the dog dip tank to be plumbed to the sanitary sewer <sup>if the following conditions are met.</sup> ~~so long as~~ PMO personnel must adhere to the disposal method outlined in paragraph (3). <sup>Any</sup> Use of This tank ~~would require~~ NREAD ~~approval~~ void this for ~~any~~ <sup>another</sup> product  
Chemical

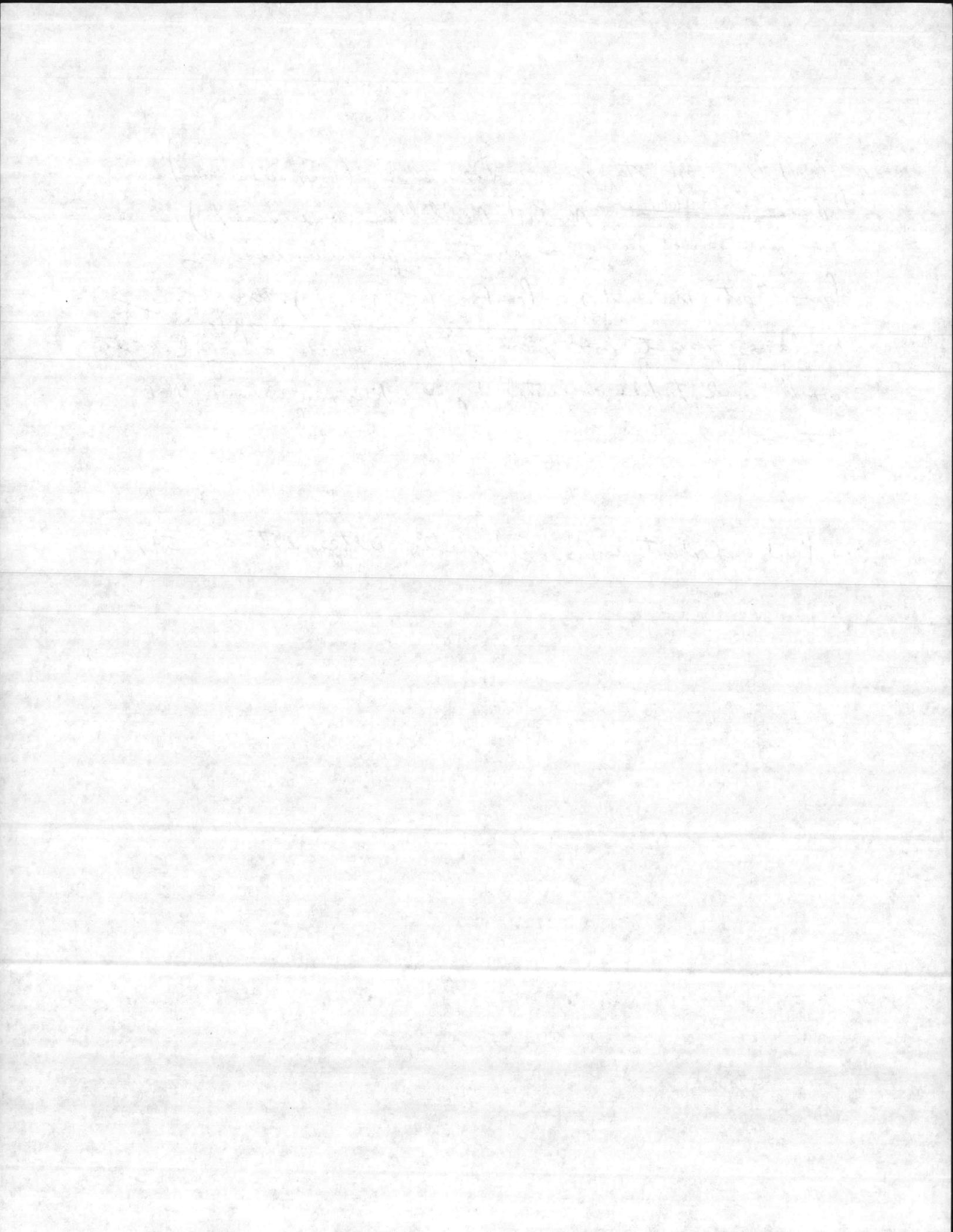
Concurrence

3. Information on proper pretreatment and disposal of Derrmaton 3 (Trademark) was gained through reference (c). Mr. Ken Olds, USAEHA, quoted Mr. Ray Kruger of the Pesticide Disposal Section of the US EPA on an acceptable method. It is to add dilute sodium hydroxide or other suitable base slowly to the vat while stirring the contents. Enough base must be added to bring the pH up to between 9 and 10. (This hydrolyzes the active ingredient, Chlorfenvinphos, to nearly chemically-inert compounds.) After the solution has been left to stand for one to two days, it may be discharged to the sanitary sewer. This discharge should be coordinated with Utilities personnel so that it will coincide with a period of high flow to the Halvot Pt. WWTP.



4. An Alternative to <sup>the</sup> use of Dermaton 3 (Trademark) was suggested by ~~Mr. Bill McClellan~~ Mr. Bill McClellan (reference to). He mentioned use of systemic pesticides such as Pro Spot (Trademark) or Pro-Ban (Trademark). Use of these would ~~not~~ generate no waste <sup>as with the use of any product,</sup> their effectiveness and safety would need to be evaluated by the Veterinary Service, MCBCL.  
~~As well~~

5. Point of Contact is Ms. Elizabeth Beltz, extension 5977.



MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION OF PRODUCT

PRODUCT/TRADE NAMES: Dermaton® (Supona) 3

REGISTRANT: Coopers Animal Health Inc.  
(formerly Wellcome Animal Health, Inc.)  
2000 South 11th Street  
Kansas City, Kansas 66103

EMERGENCY TELEPHONE: Monday thru Friday 7:30 a.m. to 5:00 p.m. call (913)  
321-1070 or (800) 255-4456. After hours call (816)  
471-4080 or (800) 821-2554.

INGREDIENTS: **Active**  
2-chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate  
12.25%

**Inert**  
87.75%  
100.00%

SHIPPING  
PAPER DESCRIPTION: Insecticides or Insect Repellents, O/T Agr., N.O.I.,  
item 102130 Sub.

SECTION II. HAZARDOUS COMPONENTS OF MIXTURE

ACTIVE INGREDIENT: 2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate

INERT INGREDIENTS: Mixture of petroleum hydrocarbons

SECTION III. PRODUCT PHYSICAL DATA

PROPERTY

DESCRIPTION: A yellow-brown free flowing liquid with a  
characteristic odor

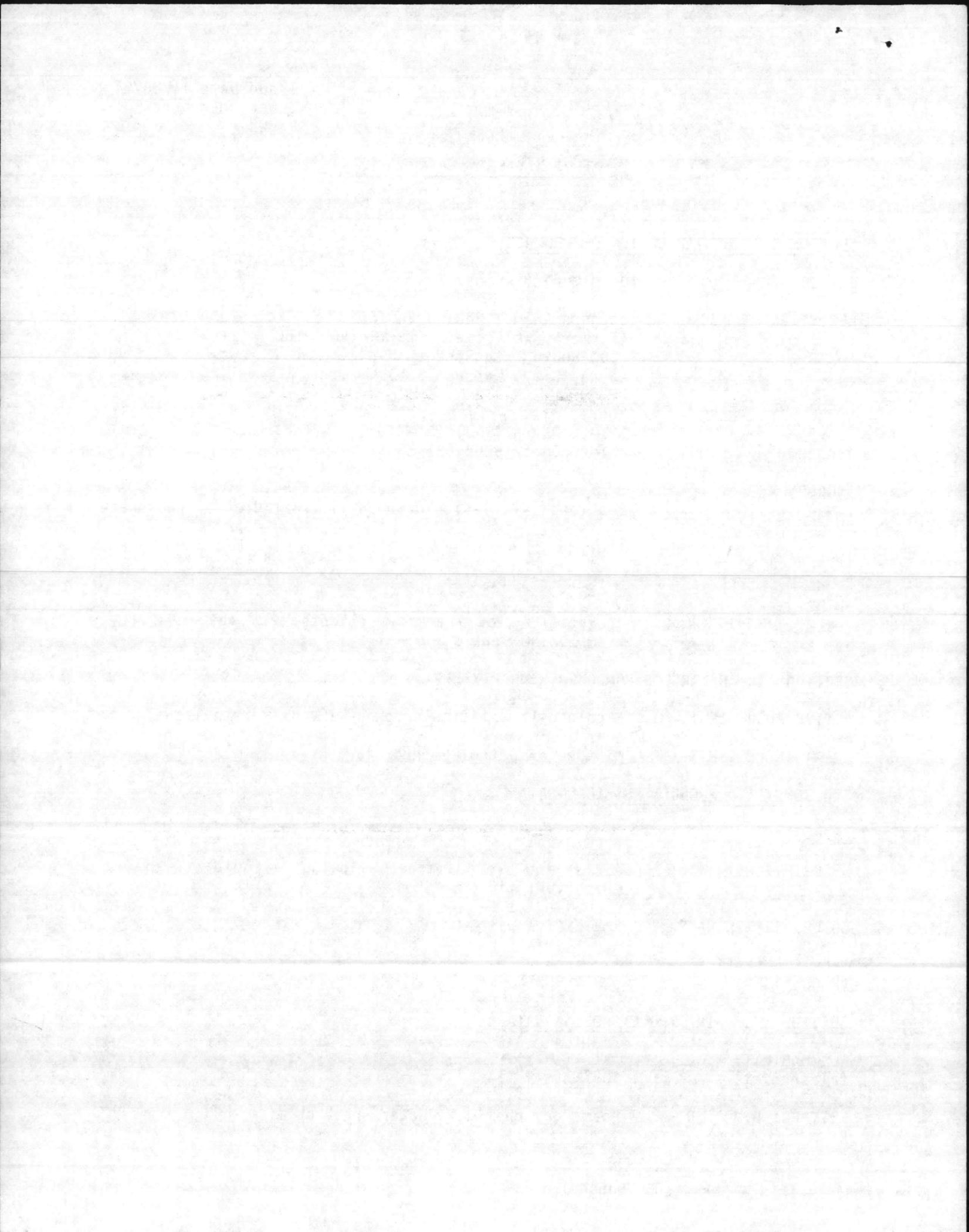
SOLUBILITY IN WATER: Emulsifies with water

SPECIFIC GRAVITY  
(H<sub>2</sub>O = 1): 0.879 @ 25°C

SECTION IV. FIRE AND EXPLOSION DATA

FLAMMABILITY  
(Flashpoint): 105°F

EXTINGUISHING MEDIA: Foam, dry chemical, water spray or mist or CO<sub>2</sub>



**SPECIAL FIREFIGHTING PROCEDURES:**

Wear full protection clothing and gear to prevent all body contact. Use air supplied breathing equipment for enclosed areas. Cool exposed containers with water spray. Avoid breathing vapors or fumes. Avoid spread of contamination.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:**

Toxic product vapor concentration can be produced. At high temperature, product decomposition can release hydrogen chloride. Do not mix or store with strong oxidants like liquid chlorine or concentrated oxygen. Prolonged contact with metal powder may produce explosive H<sub>2</sub> gas.

**SECTION V. HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE:** For current threshold limit values of various ingredients, refer to 29 CFR Part 1910 Subpart Z "Toxic and Hazardous Substances."

**EFFECTS OF OVEREXPOSURE:**

Overexposure can cause dizziness, headache, unconsciousness, blurred vision, weakness, nausea, cramps, diarrhea, pain or tightness in chest, sweating, pupil constrictions, increased salivation, tearfulness, breathing difficulty.

**EMERGENCY FIRST AID PROCEDURES:**

Remove person from further exposure. Get medical help immediately.

**IF SWALLOWED:**

CONSULT A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NOTE: ATROPINE IS ANTIDOTAL. If swallowed, gastric lavage is indicated. DO NOT INDUCE VOMITING, unless under medical supervision. Vomiting petroleum distillates can produce aspiration pneumonia. If vomiting occurs spontaneously, DO NOT let victim lie down. DO NOT allow any material to enter the airway.

**IF ON SKIN:**

Remove contaminated clothing and immediately wash skin thoroughly with soap and water.

**IF IN EYES:**

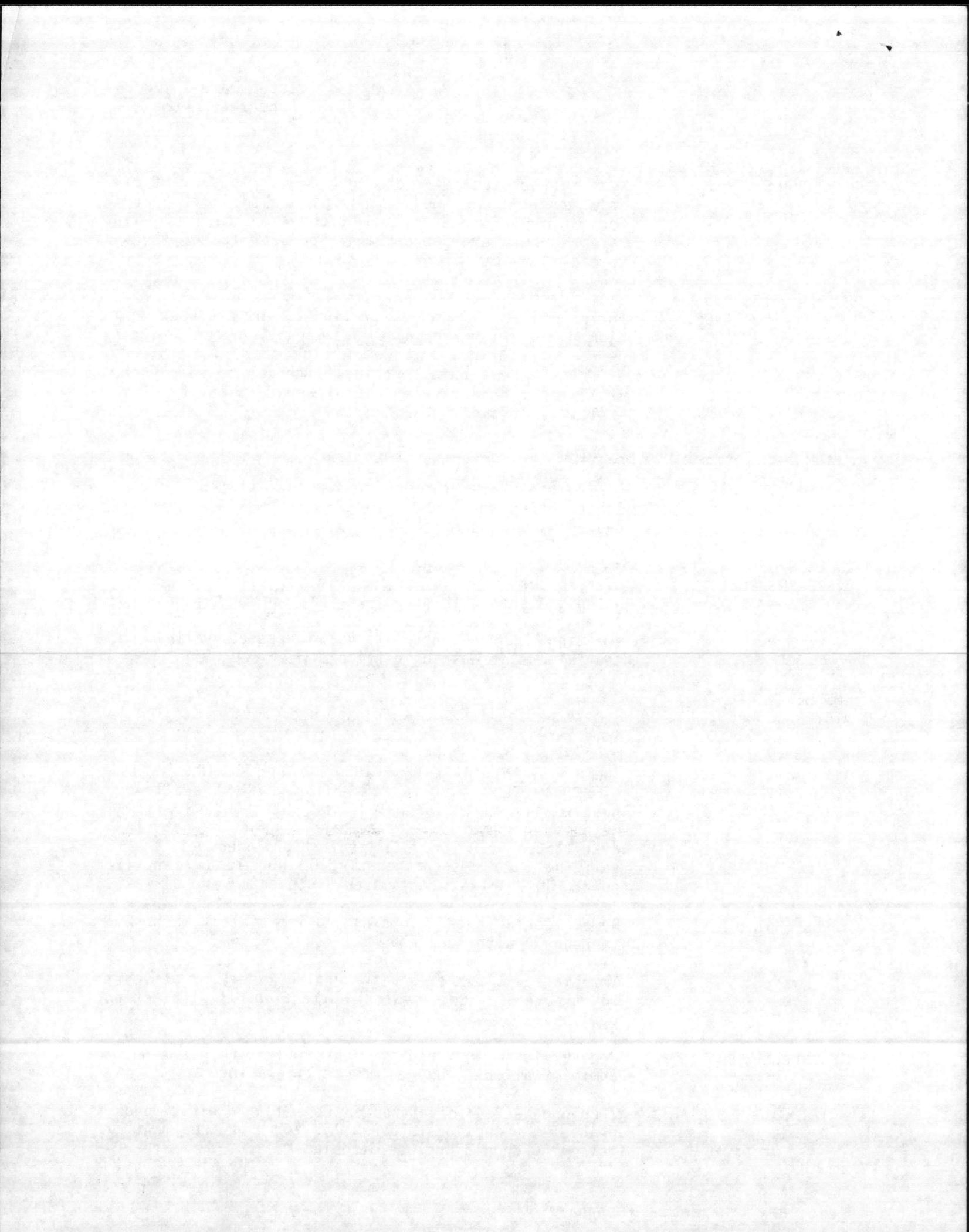
Immediately flush eyes with running water for at least 10 minutes. Get medical attention if irritation persists.

**IF INHALED:**

Remove victim to fresh air. Artificial respiration or administration of oxygen may be lifesaving.

**NOTE TO PHYSICIAN:**

2-chloro-1-(2,4 dichlorophenyl) vinyl diethyl phosphate is a cholinesterase inhibitor and treatment of poisoning should include atropine.



## SECTION VI. REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS  
POLYMERIZATION: Will not occur.

INCOMPATIBILITY  
(Materials to Avoid): Strong basis and strong oxidants like liquid chlorine, concentrated oxygen, sodium or calcium hypochlorite. Oxygen under pressure, metal powders (Al, Mg, Zn, etc.).

HAZARDOUS  
DECOMPOSITION PRODUCTS: Fumes smoke and carbon monoxide in cases of incomplete combustion. Hydrogen chloride may be liberated on thermal degradation. Phosgene or hydrogen gas may also be liberated during combustion.

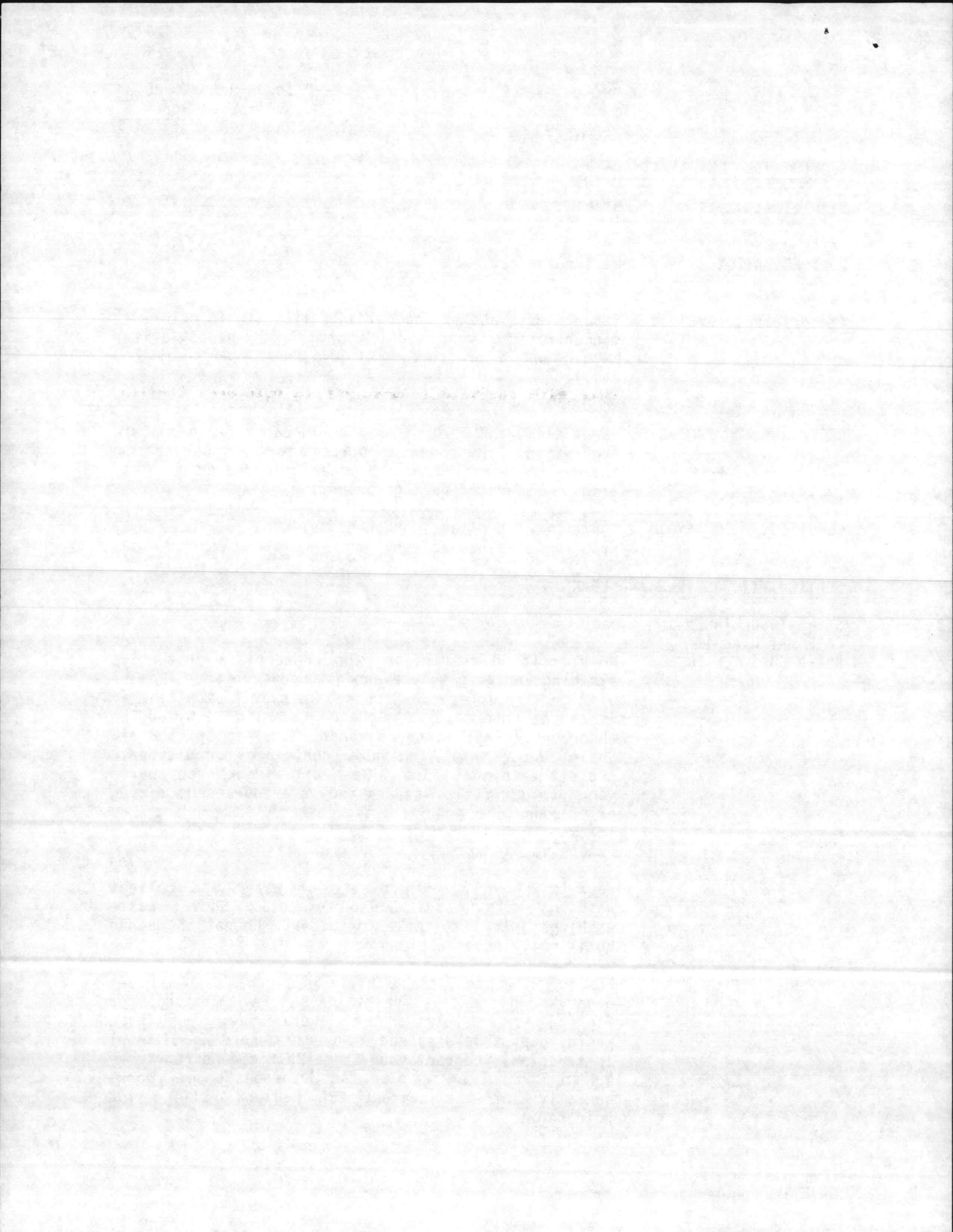
CONDITIONS TO AVOID: Contact with flame or hot, glowing surfaces may produce toxic gasses (phosgene, HCL).

## SECTION VII. SPILLS AND LEAKS

STEPS TO BE TAKEN IN  
CASE MATERIAL IS  
RELEASED OR SPILLED: Wear approved respirator plus appropriate protective clothing and gear to prevent all body contact. Remove all ignition sources. Keep people away. Stop leak if it can be done safely. Recover free liquid by adding absorbant (clay, earth, sawdust, etc.) to spill area. Shovel waste into a suitable container for disposal. Avoid breathing vapors. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, water courses, or extensive land areas.

DECONTAMINATION: Wash spill area with plenty of water and collect washings with a suitable absorbent. Shovel waste washings into a suitable container. Repeat as needed until spill area is clean.

PRODUCT DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.



CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

### SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type): Use a hydrocarbon vapor canister or supplied air respiratory protection in confined or enclosed spaces.

VENTILATION: Local exhaust - Face velocity > 60 fpm: Special Use only with adequate (equivalent to outdoors) ventilation: Mechanical (General) Use explosive proof equipment: Other - no smoking or open lights.

PROTECTIVE CLOTHING: Impervious rubber gloves and other protective clothing is required to prevent any body contact.

EYE PROTECTION: Wear goggles, safety glasses or face shield when eye contact may occur.

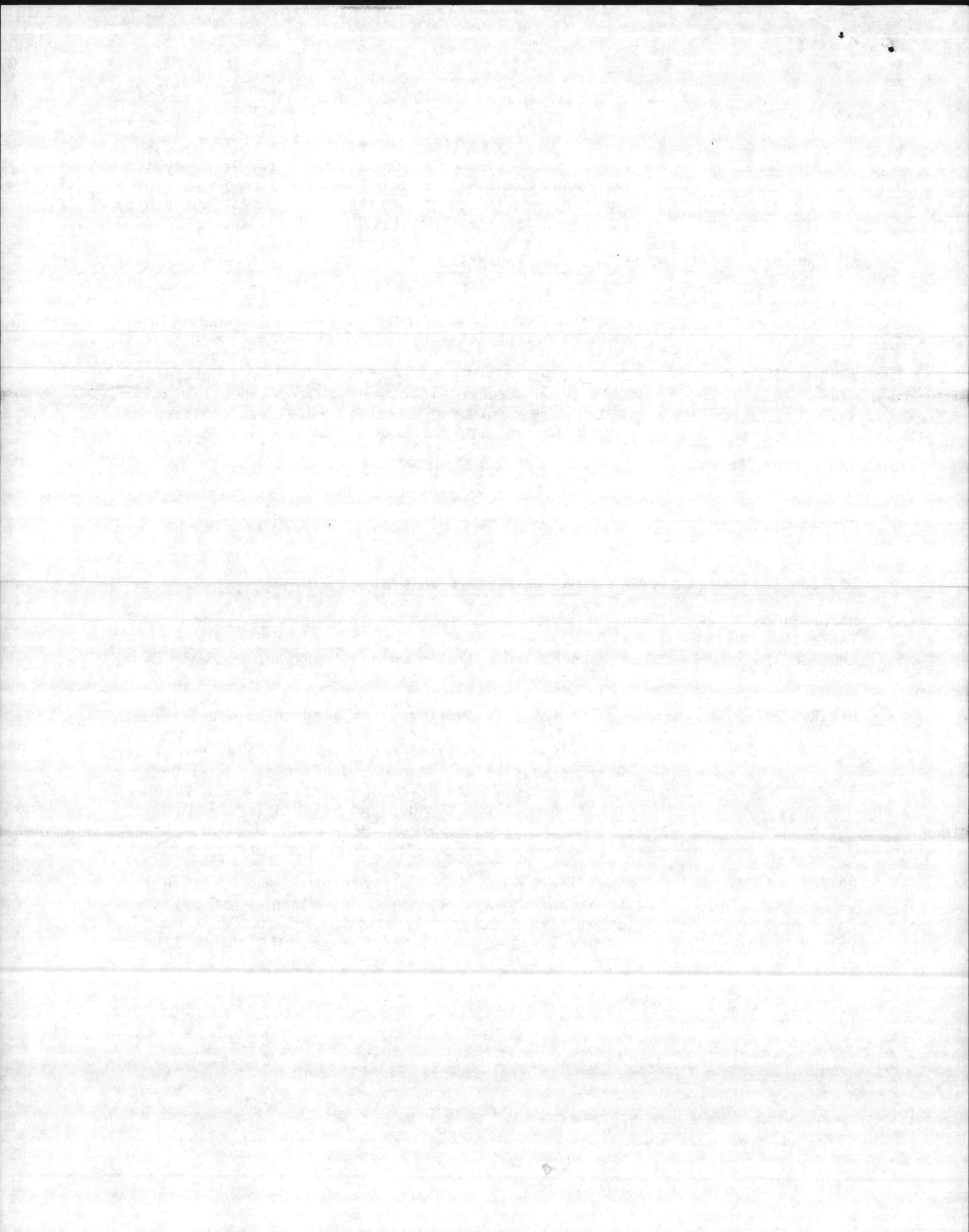
### SECTION IX. SPECIAL PRECAUTIONS OR OTHER COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Store in cool, dry place away from heat and open flame.

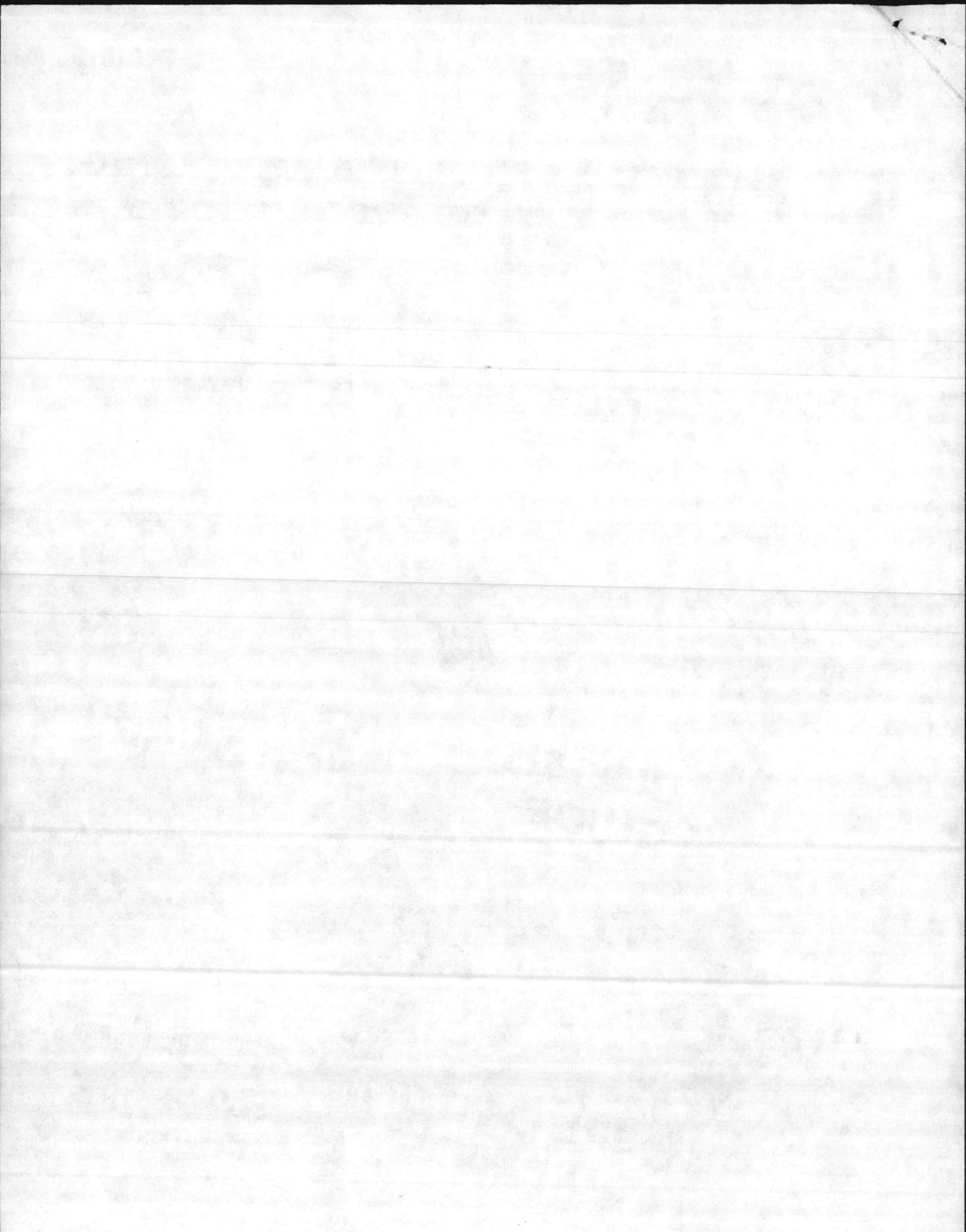
OTHER PRECAUTIONS: May be fatal if swallowed, inhaled or absorbed through the skin. Do not breath spray mist. Causes eye irritation. Contaminated clothing and protective devices must be decontaminated after each use. Destroy contaminated leather articles including shoes. Wash skin thoroughly with soap and water after handling.

\* \* \* \* \*

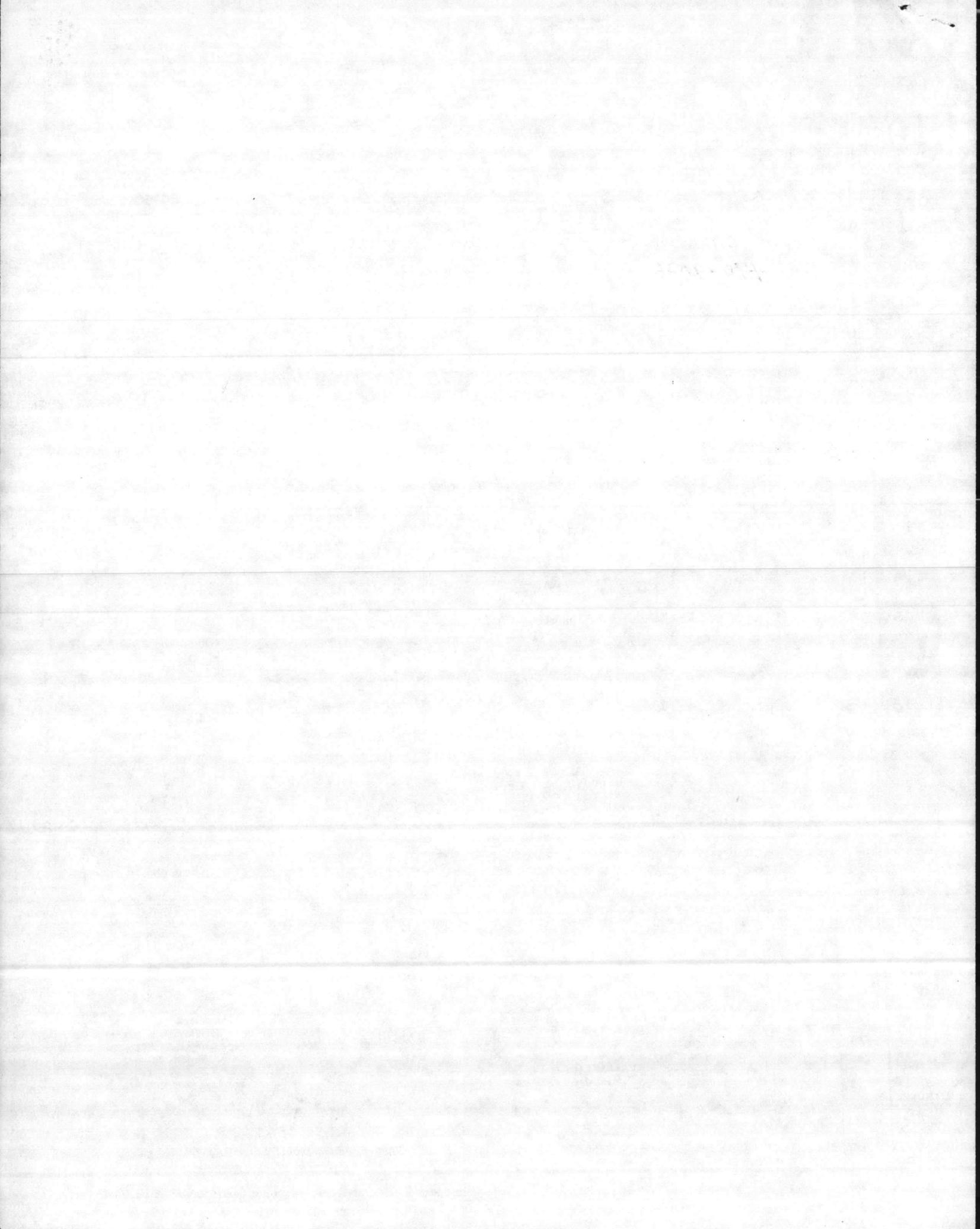
NOTICE: The information herein is given in good faith but is furnished without warranty or guarantee of any kind. Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials designated.











8-21-87

Cpl Dalpe } 3915  
Sgt King }

Dermaton 3  
from Base Vet at T.T.

2-Chloro - 1 (2,4-dichlorophenyl)  
vinyl diethyl phosphate

~~12.5~~ 12.25%

inert ingred.

87.75%

(contains methylene chloride)

100%

EPA Reg-No. 59-203

1 gal. containers

4 blocks x 2 and 1/2 in  
4 blocks high

Coopers Animal Health Inc.

Kansas City, Mo 64108  
1-800-325-6037

MSDS 1800 255 4456 / <sup>John G. Gladney</sup>  
Dr Salisbury

64  
6  
20  
12  
58

150 gal vat  
mix 1 oz/gal water use it for 40-60 days

4  
28  
2.5  
140  
56  
70

Mr Beasley BMO P&E 5794

Mr Sawyer BMO

Jimmy Kellum Insect V. 5761

inside sealed with sealer

7.5 gal/ft<sup>3</sup> x 28 ft<sup>3</sup> 2.8' x 2 x 5

7.5 gal/ft<sup>3</sup> 28 ft<sup>3</sup> 32" D x 26" x 58"  
D x W x L

8-31-81

Cpl. [unclear] }  
Sgt. King }  
3012

Page 10 of 11

2 - [unclear] - 1 (in [unclear])  
[unclear] [unclear]

87.12.01  
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West [unclear]  
([unclear] [unclear])

ETA [unclear] No. 30-13

[unclear] [unclear]

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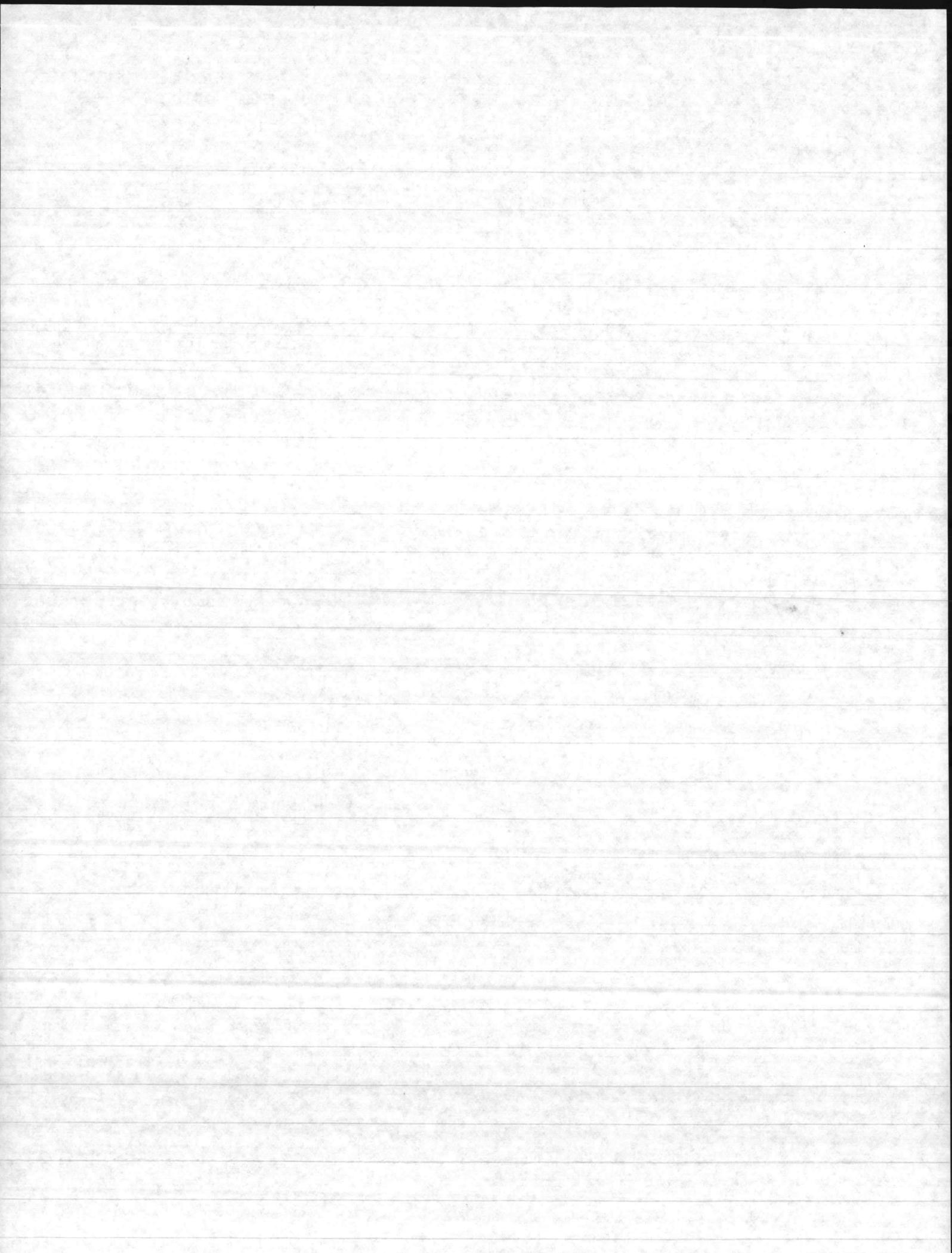
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$$100 \text{ gal} \times 3.785 \text{ L/gal} = 378.5 \text{ L}$$

Say 375 L

$$\frac{0.6 \text{ mL}}{0.460 \text{ L}} = \frac{X}{375 \text{ L}} \quad \frac{11 \text{ mL}}{0.5 \text{ L}} = \frac{X}{375 \text{ L}}$$

$$0.460 \text{ L} \cdot X = (0.6 \text{ mL})(375 \text{ L})$$

$$X = \frac{(11 \text{ mL})(375 \text{ L})}{0.5 \text{ L}}$$

$$489 = \frac{225}{1.460}$$

= 489

$$X = 8,250 \text{ mL} = 8.25 \text{ L}$$

$$\frac{500 \text{ mL}}{0.1} = 5000 \text{ mL}$$

350  
400  
550  
1300



Room temperature

375  
11  
375  
375  
4125  
8250.  
0.5 | 41250  
40  
12  
10  
25  
25

<u>Dermatom</u>	<u>titrant</u>	<u>VOL TITRANT req d/ml</u>	<u>pH (target 9-10)</u>
500 mL	5N NaOH	0.6	<del>10.1</del>
460 mL	0.1N NaOH	10.6	9.6

50 mL KOH + 60 mL 6N HCl

?

up on a drum  
Crease cutter  
~~Hydro~~

793001 C008492 4 gal./box \$ 31.29/box

NA 1760 Compound, cleaning liquid  
(caustic soda and glycol ethers)  
5 km, whole

\$ 40 roll wire  
1 post  
anchor bolts  
roll 6 mil plastic

Super Trump  
12740

793001 C008941 4 gal/box \$ 28.85/box

UN 1760 Corrosive liquid, N.O.S.  
(Potassium Hydroxide NA 1719)



39.95  
750  
5x150

150  
5  
750 ft<sup>2</sup>      200  
172  
28

200  
750  
126

6  
6  
36

Handwritten notes in a cursive script, possibly a ledger or account book. The text is extremely faint and difficult to decipher, but appears to contain several lines of entries, possibly including names and numerical values.