

Pest Control Operators Only
DO WAREHOUSES AND STORAGE

DIRECTIONS

Water to proper strength before using.
Occupants should vacate before in-
clude not reoccupy the premises until
for at least four hours. Food should
handling equipment covered with
application or washed after applica-

several windows or doors to create
reduction of DDVP vapors. Do not
act areas of food processing plants,
bas where food is commercially pre-
not use in serving areas while food
in residential areas cover or remove
contamination of cooking utensils and

one part Herkol 14 WE with 13 parts
the diluted emulsion (See warning below)
The strength of the emulsion is given below.

Parts DDVP	Final Strength
1	0.5%
1	1.0%

more volume to be used immediately or at
in polyethylene lined containers Wash out

Insects: FLIES—Use low-pressure sprayer or
on the floor. It is not necessary to spray
fumes from DDVP on the floor will control
Use 1 quart of 0.5% emulsion per 1000
as often as necessary.

diluted emulsion treat cracks, baseboards,
places cockroaches infest. Apply by oil
sprayer Thorough application is desired. Use
60 square feet of floor. Repeat as often

emulsion treat cracks, baseboards, closets,
chairs, couches, stools and other places the in-
s and floor covering. Repeat as often as
sure spray or an oil can Thorough applica-
rugs, curtains and fabrics should be light
age. Mattresses may be lightly treated on
and buttons. Do not wet Dog and cat
underside to kill fleas Ventilate mattresses
before use. Use one pint of 0.5% emulsion

beds, sheds and other areas not occupied by
with brown dog ticks apply emulsion with
floor coverings and other infested objects.
oil stream spray to cracks in floor, walls,
harboring ticks. Use one quart of 0.5%
one quart of floor space. Close room for
Note that this dose of DDVP is about 2
tested for flies, cockroaches and fleas
the Herkol concentrate or diluted emulsions
utensils or watering devices.
and the diluted emulsions are POISONOUS.
be observed when handling them. (See

emulsion in a safe place. Children or
reach or handle the concentrate or diluted
that only the amount of diluted emulsion
rate that will be used immediately.
or outdoors or in a well ventilated room.
of concentrate in running water before

GUARDIAN



Net Contents _____

HERKOL 14 WE

For Use By Pest Control Operators Only
A Volatile P.C.O. DDVP Concentrate
Water Emulsifiable Concentrate

Active Ingredients:

*2, 2-Dichlorovinyl dimethyl phosphate 13.0%

*Related Compounds 1.0%

Perchloroethylene 66.0%

Inert Ingredients 20.0%

Total 100.00%

*Equivalent to 14.0% Vapona
One Gallon Weighs 7.2 lbs. Net

DDVP Content By Volume:

One gallon contains 1 lb. DDVP

One quart contains .25 lb. DDVP

One pint contains .125 lbs. DDVP

One fl. oz. contains 3.55 grams DDVP

DDVP Content By Weight:

One pound contains .15 lb. DDVP

Two pounds contains .30 lb. DDVP

Dilute In Water Before Use

Read Directions and Warnings Before Use.

DANGER

POISON

Keep Out Of Reach Of Children

(See side panel for antidote statement and additional dangers)

THE
Air Chem Corp.

1514 11th Street

Portsmouth, Ohio

phone 353-1125

DANGER

Herkol 14 WE Concentrate is POISON-
haled or absorbed through the skin
fumes. Avoid exposure to fumes. Wear
protective clothing and goggles when
trate to prepare emulsions. Keep
out of operational area. Wash after



POISON

ANTIDOTE AND FIRST AID

Atropine is the emergency antido-
poisoning. Consult your physician
quate supply of 1-100 grain atropi-
ase. CALL A PHYSICIAN IMMEDIATELY
OF SUSPECTED POISONING. 2-P
may be administered in conjunctive

INTERNAL: If the material has
vomiting immediately. This may be
finger into the throat or by giving
tablespoon of salt to a glass of wa-
THING BY MOUTH TO AN UNCONSCIOUS

EXTERNAL: If the material has
immediately remove patient from the
area, remove all contaminated cloth-
ing and running water. If the ma-
terial is immediately with running
water.

IF WARNING SYMPTOMS APPEAR
2-grain atropine tablet immediately
ATROPINE UNLESS WARNING
(See WARNING SYMPTOMS below
and quiet.)

Start artificial respiration immedi-
ately.

Transport the patient immediately.

NOTE TO PHYSICIAN

WARNING SYMPTOMS: Symptoms include
in chest, blurred vision, non-reactive pupil-
ing, nausea, vomiting, diarrhea and abdo-

TREATMENT: Atropine is the specific th-
against parasympathetic nervous stimulation
sympathetic stimulation, atropine sulfate
intervals, in doses of 1 to 3 milligrams until
occurred.

Morphine is contraindicated.

Clear chest by postural drainage.

Observe patient continuously for 48 hours.

Repeated exposure to cholinesterase

ing, cause prolonged susceptibility

cholinesterase inhibitor.

Allow no further exposure until time

has been allowed as determined by

CONTAINER DISPOSITION

"Do not reuse empty container. Do not
crushing. Bury or discard in a safe
supplies."

"Do not reuse empty drum. Return
destroy by perforating or crushing
place away from water supplies."

EPA Reg. No. 7122-46

DATE 5-23-72

Batch # _____ Pa

ACCEPTED

DIRECTIONS

Mix Herkol 14 WE in water to proper strength before using.

Preparation of Premises: Occupants should vacate before indoor treatments and should not reoccupy the premises until it has been ventilated for at least four hours. Food should be removed and food handling equipment covered with wrapping paper during application or washed after application is completed.

After application, open several windows or doors to create air currents to insure reduction of DDVP vapors. Do not use in the edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. When using in residential areas cover or remove exposed foods. Avoid contamination of cooking utensils and food processing surfaces.

Preparation of Emulsion: Mix one part Herkol 14 WE with 13 parts or 26 parts of water to prepare the diluted emulsion. See warning below for handling the concentrate. The strength of the emulsion is given below.

Parts Water	Parts DDVP	Final Strength
26	1	0.5%
13	1	1.0%

Stir emulsion occasionally. Prepare volume to be used immediately or at least within 1-2 days. Store in polyethylene lined containers. Wash out spray equipment before storing.

Application For Control Of Insects: **FLIES:** Use low-pressure sprayer or sprinkle the diluted emulsion on the floor. It is not necessary to spray ceiling or walls because the fumes from DDVP on the floor will control flies roosting on the ceiling. Use 1 quart of 0.5% emulsion per 1000 square feet of floor. Repeat as often as necessary.

COCKROACHES: With the diluted emulsion treat cracks, baseboards, closets, pipe entries and other places cockroaches infest. Apply by oil can or fine pencil stream sprayer. Thorough application is desired. Use 1 fl. oz. of 1% emulsion for 60 square feet of floor. Repeat as often as necessary.

FLEAS: With the diluted emulsion treat cracks, baseboards, closets, bed frames, underside of chairs, couches, stools and other places the insects may infest. Treat floors and floor covering. Repeat as often as necessary. Apply with low-pressure spray or an oil can. Thorough application is desired. Treatment of rugs, curtains and fabrics should be light. Make spot test to avoid damage. Mattresses may be lightly treated on the underside around seams and buttons. Do not wet. Dog and cat bedding may be treated on underside to kill fleas. Ventilate mattresses and bedding for 12 hours before use. Use one pint of 0.5% emulsion per 500 square feet.

BROWN DOG TICK: In kennels, sheds and other areas not occupied by humans which are infested with brown dog ticks apply emulsion with low-pressure sprayer to floor, floor coverings and other infested objects. Also apply with oil can or pencil stream spray to cracks in floor, walls, door frames and other places harboring ticks. Use one quart of 0.5% diluted emulsion per 500 square feet of floor space. Close room for 4-8 hours before ventilating. Note that this dose of DDVP is about 2 times greater than doses suggested for flies, cockroaches and fleas.

PRECAUTIONS: Do not sprinkle Herkol concentrate or diluted emulsions on food, food containers, food utensils or watering devices.

Herkol 14 WE Concentrate and the diluted emulsions are **POISONOUS**. Therefore, precautions must be observed when handling them. (See Antidote and Warnings)

Store the concentrate and diluted emulsion in a safe place. Children or animals must not be able to reach or handle the concentrate or diluted emulsion. It is recommended that only the amount of diluted emulsion be prepared from the concentrate that will be used immediately.

Mix the concentrate into water outdoors or in a well ventilated room. Wash the outside of the bottle of concentrate in running water before storing away.

Net Contents

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A

Active Ingre
*2, 2-Dichl
*Related C
Perchloroe
Inert Ingredie
Totals

DDVP Conten
One gallon
One quart
One pint
One fluid ounce
DDVP Conten
One quart
Two pints

Rea

Keep
(See side panel f

Or!

trate to prepare emulsions. Keep an empty
out of operational area. Wash after handling.

NOTE TO PHYSICIAN

WARNING SYMPTOMS: Symptoms include weakness, in chest, blurred vision, non-reactive pin-point pupils, ing, nausea, vomiting, diarrhea and abdominal cramp

TREATMENT: Atropine is the specific therapeutic a against parasympathetic nervous stimulation. If there sympathetic stimulation, atropine sulfate should be in intervals, in doses of 1 to 3 milligrams until complet occurred

Morphine is contraindicated
Clear chest by postural drainage.
Observe patient continuously for 48 hours.
Repeated exposure to cholinesterase inhibitors r ing, cause prolonged susceptibility to very s cholinesterase inhibitor
Allow no further exposure until time for choline has been allowed as determined by blood test

CONTAINER DISPOSAL

"Do not reuse empty container. Destroy it b crushing. Bury or discard in a safe place a supplies."

"Do not reuse empty drum. Return to drum destroy by perforating or crushing and b place away from water supplies."

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