

Revised Date  
Jan 29, 2001

**MATERIAL SAFETY DATA SHEET**

**SECTION I. MANUFACTURER :**

HERCON ENVIRONMENTAL /  
P.O. BOX 435 ABERDEEN RD  
EMIGSVILLE, PA 17318-0435

For information or in an emergency, call  
(717)764-1192

**SECTION II.**

HAZARDOUS MATERIAL  
IDENTIFICATION SYSTEM

HEALTH = 2  
FLAMMABILITY = 0  
REACTIVITY = 0

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**SECTION III. PRODUCT INFORMATION**

PRODUCT NAME: *Hercon Vaportape II*  
CHEMICAL NAME of active ingredient: *Dimethyl-2,2-dichlorovinyl phosphate*  
CHEMICAL FAMILY of active ingredient: *Organophosphate ester*  
SYNONYMS: *Vapona, DDVP, dichlorvos*  
C.A.S. NUMBER: 62-73-7  
FORMULA: *C<sub>4</sub>H<sub>7</sub>Cl<sub>2</sub>O<sub>4</sub>P*  
PRODUCT FORM: *Laminated polymeric dispensers*

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**SECTION IV. PHYSICAL PROPERTIES**

BULK DENSITY: *N/A*                          SPECIFIC GRAVITY/25°C: *N/A*  
MELTING POINT: *300°F*                      BOILING POINT: *N/A*  
FREEZING PT: *N/A*                                  pH: *N/A*  
PERCENT VOLATILE by volume: *Not Available*  
ODOR DESCRIPTION: *Mild Chemical*      VAPOR DENSITY (AIR = 1): *N/A*  
VAPOR PRESSURE (20°C, mm HG): *Not Available*  
SOLUBILITY IN WATER: *Not established*

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**SECTION V. PRODUCT HAZARD INFORMATION**

PERCENT HAZARDOUS COMPONENT IN PRODUCT: *10.75% DDVP and  
related compounds*  
OCCUPATIONAL EXPOSURE LIMITS: *1 mg/m<sup>3</sup>*  
SIGNS AND SYMPTOMS OF OVEREXPOSURE: *Acute: Cholinergic effects;  
vision problems, nausea, headache, shortness of breath; Chronic: Same as  
acute, plus tension, insomnia, loss of appetite, apathy, trembling and confusion.*

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**EMERGENCY AND FIRST AID PROCEDURES:** *Dichlorvos is a cholinesterase inhibitor. EYE, Flush with water for at least 15 minutes. SKIN, wash with soap and water. Remove contaminated clothing. INHALATION, Remove to fresh air.. If breathing is labored, give oxygen. INGESTION, If ingested, induce vomiting. Note to Physician: Atropine sulfate should be administered for accidental exposure to dichlorvos. Get medical attention immediately.*

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#### SECTION VI. FIRE HAZARD INFORMATION

FLASH POINT: *N/A* FLAMMABLE LIMITS in air: *N/A*  
EXTINGUISHING MEDIA: *Carbon dioxide, foam*  
SPECIAL FIRE FIGHTING PROCEDURES: *If involved in fire, use air-supplied equipment. Wear complete fire fighting gear, including protective gloves, eye protection and self-contained breathing apparatus. Do not inhale fumes.*  
UNUSUAL FIRE AND EXPLOSION HAZARDS: *Emits toxic CO and CO<sub>2</sub> fumes when burned. Contact with unburned vaporized dichlorvos can be hazardous to health.*

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#### SECTION VII. REACTIVITY INFORMATION

PRODUCT STABILITY: UNSTABLE \_\_\_\_\_ STABLE  X   
HAZARDOUS POLYMERIZATION: May Occur \_\_\_\_\_ May Not Occur  X   
INCOMPATIBLE SUBSTANCES: *Dichlorvos is corrosive to black iron/mild steel. In absence of moisture, non-corrosive to aluminum, nickel, hastelloy B and stainless steel (Type 316).*  
HAZARDOUS DECOMPOSITION PRODUCTS: *Products of dichlorvos combustion may be inorganic acids, phosphorus compounds and chlorinated organic compounds. The polymeric dispenser may produce CO, CO<sub>2</sub>, HCL and CL<sub>2</sub>.*

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#### SECTION VIII. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** *Place unpouched strips in tightly sealed containers. Clean area with a dilute caustic, followed by water. Collect the caustic and the water and dispose as hazardous waste.*

WASTE DISPOSAL METHOD: *Incinerate or otherwise manage at RCRA permitted waste management facility. Do not reuse empty containers. Check state and local authorities for other options.*

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Product Name: *Hercon Vaportape II*

**SECTION IX. PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: *Usually none required under normal usage, but use of respirators fitted with filters suitable for organic vapors and acids are recommended for continuous handling.*

EYE PROTECTION: *Usually none required*

VENTILATION: *Local exhaust is recommended.*

PROTECTIVE GLOVES: *Usually none required under normal usage, but vinyl, latex or rubber gloves are recommended for continuous handling.*

OTHER PROTECTIVE EQUIPMENT: *None under normal usage.*

NOTE: *Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.*

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**SECTION X. HANDLING AND STORAGE PRECAUTIONS**

GENERAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: *Store in sealed pouches in a cool, dry place. To maintain product integrity protect from high temperatures. Keep container closed. Launder contaminated clothing before use. Wear protective equipment described above if exposure conditions warrant. Do not allow to contaminate water sources, food or feed.*

SPECIAL PRECAUTIONARY CONDITIONS: *None.*

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**SECTION XI. TRANSPORTATION DATA**

DOT LABEL: *None required, non-hazardous material.*

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**SECTION XII. DISCLAIMER**

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise material safety data sheets periodically as new information becomes available. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose of any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. Hercon Environmental assumes no responsibility for any damages, losses,

injuries or consequential damages which may result from the use or misuse of this product and the recipient assumes all such risks.

MSDS NUMBER 100311 100314 100312 DATE ISSUED: 2 Jan. 1986 (LZ)  
BY: Priscilla MacLean DATE REVISED: 29 Jan. 2001  
TITLE: Product Development Manager

This MSDS was checked with the manufacturer in February 2004 and found to be current.