

MATERIAL SAFETY DATA SHEET

SECTION I. MANUFACTURER

HERCON ENVIRONMENTAL
PO 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

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: $C_4H_7Cl_2O_4P$
PRODUCT FORM: Controlled release laminated polymeric dispensers

SECTION IV. PHYSICAL PROPERTIES

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

SECTION V. PRODUCT HAZARD INFORMATION

PERCENT HAZARDOUS COMPONENT IN PRODUCT: 10.75% DDVP and related compounds
OCCUPATIONAL EXPOSURE LIMITS: 1 mg/m³
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.
EMERGENCY AND FIRST AID PROCEDURES: Dichlorvos is a cholinesterase inhibitor. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present after the first 5 minutes then continue rinsing eye. Call a physician immediately. **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF INHALATED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor immediately for treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor or going for treatment. Note to Physician: Atropine sulfate is the antidote of choice.

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 ₂ fumes when burned. Contact with unburned vaporized dichlorvos can be hazardous to health.	

Continued.....

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, CO₂, HCL, and CL₂.

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.

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: Ususally 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.

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

SECTION XI. TRANSPORTATION DATA

DOT LABEL: None required, non-hazardous material.

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 expressed 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
BY: Priscilla MacLean
TITLE: Product Development Manager

DATE ISSUED 2 Jan. 1986 (LZ)
DATE REVISED 17 Jan. 2007