

**MATERIAL SAFETY DATA SHEET**

(Updated 11/30/05)

DOUGLAS PRODUCTS and PACKAGING CO.

1550 E. Old 210 Highway

Liberty, MO 64068

(816) 781-4250 Fax: (816) 781-1043

Trade Name: **DOUGLAS VAPO-CIDE ®**

**Emergency Chemtrec\*: 1-800-424-9300**

**Manufacturer's Name: Douglas Products & Packaging**

**Day Telephone: 1-816-781-4250**

**Night Telephone: 1-816-781-4650 1-816-505-2277**

EPA Registration No.: 1015-68

\*The Chemtrec number is used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

DOT Shipping Description: Organophosphorus Pesticides, Liquid, Toxic, Flammable, 6.1, UN3017, PGI, Item Number 45617, Sub 5, Class 92.5, Dot Placarding: Poison 6

Labels

Material or Component	Cas#	% ACGIH	OSHA/ ppm	PEL mg/m3	TLV ppm/mg/m3	STEL ppm/mg/m3		
Dichlorvos & related Compounds	00062-73-7		05.00		X/-	-	1(s)	-
					-/X	0.1	0.9(s)	-
								Industry Recommendation
Xylene Range Solvent	64742-95-6		95.00		X/X	50	-	-
Trimethyl Benzene	25551-13-7		44.30		X/X	25	125*	-
Contains 1,2,4 Trimethyl Benzene	00095-63-6		30.40		-	-	-	-
Xylene	01330-20-7		02.90		X/X	100	434*	150
Cumene	00098-82-8		01.40		X/X	50	245*	-
Ethyl Benzene	00100-41-4		00.50		X/X	100	435*	125

mg/m3- milligrams per cubic feet

\*OSHA and ACGIH vary slightly by 1 to 4 mg/m3. This listed limit is the OSHA value.

(s) Indicates that significant amounts can be absorbed into the body through the skin, mucous membranes and eyes. An employee's skin exposure must be prevented or reduced through the use of gloves, protective clothing, eye protection, other protective equipment and engineering controls or work practice.

This product contains the toxic chemicals Dichlorvos, Xylene, 1,2,4 Trimethyl Benzene and possibly Cumene and Ethyl Benzene in sufficient quantities to be subject to the reporting requirement of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

**HMIS: Health- 4                      Flammability-2                      Reactivity-1                      Personal Protection- B**

Product Description:

Physical Properties	<u>LIQUID</u>
Appearance	Colorless to Amber
Odor	Aromatic Solvent Odor
Boiling Point	176 degrees F to 340 degrees F
Specific Gravity	.894
Vapor Density	Heavier Than Air
Melting Point	N/A
Vapor Pressure	5.1mm Hg
Evaporation Rate	N/A
Soluble in Water	Insoluble

Fire Data

Flashpoint:	108 degrees F
Flammable Limits:	Lower-1.9% Upper-12.6%
Extinguishing Media:	Dry Chemical or Foam

Fire Fighting Techniques: Fight fire upwind. Dike fire area to prevent runoff. Use as little water as possible. Use water to keep containers cool since they may explode. If a leak or spill has not ignited, use a water spray to disperse the vapors. Water spray may be used to flush spills away from fire exposures. Do not put out fire with water. Stop source of fuel.

Unusual fire and explosion hazards: Fumes from fire are hazardous and contain toxic oxides of phosphorus, corrosive hydrogen chloride, carbon monoxide, carbon dioxide and various hydrocarbons. Vapors from the solvent will travel along ground and be ignited by an ignition source a distance away. Never use torch on or near drum because product or empty drum may ignite. Metal containers should be grounded during transfer. Eliminate ignition source while fogging.

Health Hazard Information

Principal routes of entry are inhalation, skin and ingestion

**Effects of Exposure:** ACUTE-acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion. In extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur. CHRONIC: Repeated exposures to small doses of DDVP and other organophosphates may lower the cholinesterase to

levels where the above symptoms of acute overexposure are observed.

#### FIRST AID:

Eye contact: Flush with large amounts of water. Get medical attention. If symptoms of poisoning occur, treat as for inhalation exposure.

Skin contact: Immediately remove contaminated clothing and wash skin with soap and plenty of water. Allow clothes to aerate. Place clothes in closed container until laundered. Inform laundry of hazardous properties. If symptoms occur or skin irritation persists, get medical attention.

Inhalation: Move victim to fresh air. Rescuer should wear proper protective equipment. Establish and maintain airway.

Ingestion: DO NOT INDUCE VOMITING. Aspiration of product into lungs due to vomiting can cause chemical pneumonia which can be fatal. Get immediate medical attention for evacuation of stomach contents.

**CARCINOGENICITY:** NTP: NO IARC: 2B OSHA: NO

**State Regulations: California (Proposition 65) This product contains a chemical known to the State of California to cause cancer, DDVP.**

#### REACTIVITY

Stable under normal temperatures and pressure. Will attack steel and some forms of rubber, plastics and coatings. Strong caustic, strong acids, strong oxidizers, heat and ignition sources. No hazardous decomposition products. No conditions contributing to hazardous polymerization.

#### SPECIAL HANDLING INFORMATION

Eye Protection: Splash or Full Face Respirator

Ventilation Requirements: Provide as is helpful to keep air concentration below PEL.

Respiratory Protection: If PEL is exceeded use NIOSH/MSHA air-purifying respirator.

Skin Protection: Natural Rubber gloves.

Other: Protective Work Clothing.

#### SPILL, LEAK AND DISPOSAL

Avoid contact with skin or eyes. Do not breathe fumes. Eliminate ignition sources. Ventilate closed area before entering. Wear pressure demand SCBA or its equivalent. For small spills, absorb with inert material and shovel into open head drum. For large spills dike area to prevent spill from spreading. Pump into salvage tank. Treat with dilute alkali or 5% ammonia and detergent. Absorb water and dispose as a hazardous waste. Prevent liquid from entering sewers, watercourses, or low areas. If spill exceeds 26.8 gallons (contains a reportable quantity of DDVP) and escapes into the environment, the spill must be

reported as required by state and federal regulations. To dispose consult local or state disposal authorities concerning proper disposal methods. Material is an ignitable hazardous waste and an acute hazardous waste.

#### SPECIAL PRECAUTIONS/STORAGE

- \*Do not contaminate water, food or feed by storage or handling.
  - \*Keep containers closed when not in use.
  - \*Keep away from heat or an open flame.
  - \*Foggers must be cleaned after each use to avoid excessive corrosion.
  - \*Storage drums should have a pigmented phenolic lining.
  - \*Polypropylene tanks can be used.
  - \*Certain types of PVC tubing can be used.
  - \*Nozzles should be stainless steel or a tested plastic.
  - \*No smoking, eating or drinking where material is used or stored.
  - \*There is an electrostatic accumulation hazard.
  - \*Use proper grounding procedures.
- \*Store in a secure, dry, well-ventilated room, building or covered area.
- \*Not for use or storage in the home.
- \*Segregate from incompatible material listed in Reactivity Data.

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