# SAFETY DATA SHEET

# 1. Identification

Product identifier	NUVAN® Fog 4EC™		
Other means of identification			
SDS number	288		
Product registration number	5481-204		
Synonyms	Alco® DDVP 4E Emulsifiable	e Concentrate™	
Recommended use	Organophosphate insecticio	le.	
<b>Recommended restrictions</b>	None known.		
EPA Registration number	EPA: 5481-204		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	AMVAC Chemical Corporat	ion	
Address	4695 MacArthur Court		
	Suite 1200 Newport Beach, CA 92660		
	United States		
Telephone	AMVAC Chemical Corp	949-260-1200	
	AMVAC Chemical Corp	949-260-6270(F	AX)
E-mail	CustServ@Amvac-Chemica		
Emergency phone number	Medical CHEMTREC®	888-681-4261 800-424-9300	
	(USA+Canada)	000-424-9300	
	Product Use	888-462-6822	
	CHEMTREC® (Outside USA)	1+703-527-3887	
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 4
Health hazards	Acute toxicity, oral		Category 3
	Acute toxicity, dermal		Category 4
	Acute toxicity, inhalation		Category 3
	Serious eye damage/eye irr	itation	Category 2A
	Carcinogenicity		Category 1B
	Aspiration hazard		Category 1
Environmental hazards	Hazardous to the aquatic er hazard	nvironment, acute	Category 1
	Hazardous to the aquatic er long-term hazard	nvironment,	Category 2
OSHA defined hazards	Not classified.		
Label elements			
	$\wedge \wedge \wedge$		
			>
Signal word	Danger	<b>▼ ▼</b>	

Hazard statement	Combustible liquid. Toxic if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes serious eye irritation. May cause cancer. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well ventilated area. Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	This is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information, including directions for use.

# 3. Composition/information on ingredients

#### **Mixtures Chemical name** Common name and synonyms **CAS number** % Dichlorvos (DDVP) DDVP, Nuvan, Vapona, Dimethyl 62-73-7 41.4 2,2-dichlorovinyl phosphate Aromatic solvent 64742-94-5 45 - 55 Constituents **Chemical name** CAS number Common name and synonyms % 1,2, 4-Trimethylbenzene 95-63-6 < 1 Naphthalene 91-20-3 < 3 4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Skin contact Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse. Wash off immediately with plenty of water for at least 15 minutes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. If eye irritation persists: Get medical advice/attention. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. If there will be a delay in getting medical attention, rinse the eyes an additional 15 minutes.

Ingestion	Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not induce vomiting. If victim is conscious, administer an 8 oz. glass of water containing 2 tbsp. activated charcoal. Have person lie on their left side to slow down absorption of the ingested material.
Most important symptoms/effects, acute and delayed	This product is a severe Cholinesterase Inhibitor. Preexisting skin or respiratory disorders may be aggravated by exposure to components of this product. Preexisting conditions which lower cholinesterase levels increase vulnerability to cholinesterase depression. These include: (for plasma) chronic alcoholism; malnutrition; dermatomyositis; existing toxicity from exposure to carbon disulfide, benzalkonium salts, organic mercury compounds, ciguatoxins or solanines; and (for RBC) hemolytic anemia. 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. Product may cause slight but temporary irritation to the eyes and may cause irritation of the skin. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. This product is an Organophosphate (OP) Insecticide. Do not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information. Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minutes intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazine, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a bl
General information	This product is a Cholinesterase Inhibitor. A physician should be contacted in all cases of exposure to the technical and its formulations. Do Not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste. IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed. Due to the solvent, this product can accumulate static charges which can cause an incendiary electrical discharge. Even empty containers may contain sufficient residues to cause an explosion.
Special protective equipment and precautions for firefighters	Clean all clothing before reuse. Severely contaminated clothing cannot be adequately decontaminated, and must be disposed as a hazardous waste. Shower with soap and water after contact with this product.
Fire fighting equipment/instructions	Immediately evacuate personnel to safe areas. In case of fire and/or explosion do not breathe fumes. Keep upwind. Move containers from fire area if you can do so without risk.

Material name: NUVAN® Fog 4EC™ 876 Version #: 3.0 Revision date: Jul-27-2018 Issue date: Oct-22-2015

Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Do not allow this material to drain into sewers/water supplies.
Methods and materials for	Prevent product from entering drains.
containment and cleaning up	Large Spills: Dike far ahead of spill for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Stop the flow of material, if this is without risk, to prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5%) and detergent. Never return spills to original containers for re-use.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Keep product away from food, drink, cosmetics, and tobacco products. Wash thoroughly and change clothes after handling. Wash clothes separately; do not wash heavily contaminated clothing. Dispose of heavily contaminated clothing as hazardous waste.

**Conditions for safe storage, including any incompatibilities** Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air ( Components	Туре	Value	
Aromatic solvent (CAS 64742-94-5)	PEL	400 mg/m3	
		100 ppm	
Dichlorvos (DDVP) (CAS 62-73-7)	PEL	1 mg/m3	
Constituents	Туре	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
US. ACGIH Threshold Limit Values			
	Туре	Value	Form
Components Aromatic solvent (CAS		Value 200 mg/m3	Form Non-aerosol.
Components Aromatic solvent (CAS 64742-94-5) Dichlorvos (DDVP) (CAS	Туре		Non-aerosol.
US. ACGIH Threshold Limit Values Components Aromatic solvent (CAS 64742-94-5) Dichlorvos (DDVP) (CAS 62-73-7) Constituents	<b>Type</b> TWA	200 mg/m3	Non-aerosol.

US. ACGIH Threshold Limit Constituents	Values Type	Value
Naphthalene (CAS 91-20-3)	TWA	10 ppm
US. NIOSH: Pocket Guide to	o Chemical Hazards	
Components	Туре	Value
Dichlorvos (DDVP) (CAS 62-73-7)	TWA	1 mg/m3
Constituents	Туре	Value
1,2, 4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3
		25 ppm
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3
		15 ppm
	TWA	50 mg/m3
		10 ppm
Biological limit values	No biological exposure limits r	noted for the ingredient(s).
Exposure guidelines		
US - California OELs: Skin d	designation	
Dichlorvos (DDVP) (CAS Naphthalene (CAS 91-20 US - Minnesota Haz Subs: \$	D-3)	Can be absorbed through the skin. Can be absorbed through the skin.
Dichlorvos (DDVP) (CAS	• • • •	Skin designation applies.
US - Tennessee OELs: Skin	designation	
Dichlorvos (DDVP) (CAS US ACGIH Threshold Limit		Can be absorbed through the skin.
Aromatic solvent (CAS 6 Dichlorvos (DDVP) (CAS Naphthalene (CAS 91-20	62-73-7) D-3)	Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.
Dichlorvos (DDVP) (CAS	Chemical Hazards: Skin desig	Can be absorbed through the skin.
. , .	for Air Contaminants (29 CFR	
Dichlorvos (DDVP) (CAS		Can be absorbed through the skin.
Appropriate engineering controls	should be matched to condition or other engineering controls the exposure limits have not been eyewash station.	cally 10 air changes per hour) should be used. Ventilation rates ons. If applicable, use process enclosures, local exhaust ventilation, to maintain airborne levels below recommended exposure limits. If n established, maintain airborne levels to an acceptable level. Provide
Individual protection measures,	• •	••
Eye/face protection	Chemical respirator with organ	nic vapor cartridge and full facepiece.
Skin protection Hand protection	Wear appropriate chemical re recommended.	esistant gloves. Gloves of nitrile rubber, PVA or Viton are
Other	Wear appropriate chemical re	sistant clothing. Use of an impervious apron is recommended.
Respiratory protection	When respiratory protection is required, or concentrations may exceed the PEL, use an approved air-purifying respirator equipped with organic vapor cartridges or canisters. It is recommended that the canisters be changed whenever breakthrough occurs or eight (8) hours of use has occurred, whichever comes first. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-airline with auxiliary self-contained air supply.	
Thermal hazards	Not applicable.	
General hygiene considerations	and drink. Always observe go	ance requirements. When using do not smoke. Keep away from food od personal hygiene measures, such as washing after handling the inking, and/or smoking. Routinely wash work clothing and protective inants.

# 9. Physical and chemical properties

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Appearance	Clear, pale amber liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear, pale amber.
Odor	Aromatic solvent
Odor threshold	Not available.
рН	3 - 4.5 (1% emulsion)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	326 °F (163 °C) (solvent).
Flash point	147 °F (64 °C) Tag Closed Cup
Evaporation rate	0.1 (compared to –Butyl acetate = 1.0).
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	1.8 % (77 °F (25 °C))
Flammability limit - upper (%)	11.7 % (77 °F (25 °C))
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	3.80E+00 mm Hg (Solvent).
Vapor density	Heavier than air.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Emulsifies.
Solubility (solvents)	Soluble in aromatic solvents.
Partition coefficient temp.	38.4 @ 25 C
Auto-ignition temperature	830 °F (443 °C) (approximate).
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	8.93 lb/gal
Explosive properties	Not explosive.
Flammability class	Combustible IIIA
Oxidizing properties	Not oxidizing.
Specific gravity	1.07
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known. Emits hazardous fumes and smoke of unknown composition when heated to decomposition or burned.

# 11. Toxicological information

Inhalation

# Information on likely routes of exposure

May cause damage to organs by inhalation. Toxic if inhaled.

Skin contact	Harmful in contact with skin.		
Eve contact	Causes serious eve irritation.		
Ingestion	Toxic if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting		
ingestion	may cause a serious chemical pneumonia.		
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Convulsions. Headache. Dizziness. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
Information on toxicological eff	ects		
Acute toxicity	Toxic if swallowed. Harmful in be fatal if swallowed and enter	contact with skin. Toxic if inhaled. Causes severe eye irritation. May rs airways.	
Product	Species	Test Results	
NUVAN Fog 4EC			
Acute			
Dermal			
LD50	Rabbit	2475 mg/kg	
		1392 mg/kg female	
Inhalation			
LC50	Rat	1.04 mg/l	
Oral			
LD50	Rat	55 mg/kg female	
Skin corrosion/irritation	Prolonged skin contact may ca	ause temporary irritation	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Eye			
NUVAN Fog 4EC		Result: Extremely irritating	
Respiratory or skin sensitizatio	n		
ACGIH sensitization DICHLORVOS (DDVP), VAPOR (CAS 62-73-7)	INHALABLE FRACTION AND	Dermal sensitization	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	Possible skin sensitizer.		
Germ cell mutagenicity		product or any components present at greater than 0.1% show any	
Carcinogenicity	May cause cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Dichlorvos (DDVP) (CAS Naphthalene (CAS 91-20 <b>OSHA Specifically Regulate</b>		2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans. 001-1052)	
Not regulated.			
	ogram (NTP) Report on Carcin	-	
Naphthalene (CAS 91-20	•	Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity		o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure		otential neurotoxicity as an organophosphate.	
Specific target organ toxicity - repeated exposure	organophosphate.	ough prolonged or repeated exposure. Potential neurotoxicity as an	
Aspiration hazard	may cause chemical pneumor		
Chronic effects	Prolonged inhalation may be h	narmful.	
12. Ecological information	ı		
Ecotoxicity		c to aquatic life with long lasting effects. This product is toxic to fish, o out of any body of water. Do not contaminate water when disposing vastes.	

Components		Species	Test Results	
Aromatic solvent (CAS 6474	2-94-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours	
			8.8 mg/l, 96 hours	
Dichlorvos (DDVP) (CAS 62-	-73-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	0 - 0.0001 mg/l, 48 hours	
Fish	LC50	Cutthroat trout (Oncorhynchus clarki)	0.141 - 0.321 mg/l, 96 hours	
Persistence and degradability	No data is	available on the degradability of any ingred	dients in the mixture	
Bioaccumulative potential	No data 15	available of the degradability of any ingret		
Mobility in soil	No data av	ailable		
-				
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ons			
Disposal instructions	this materia with chemi	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in	accordance with all applicable regulations		
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	be dispose	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of container and residues in accordance with all applicable regulations.		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent).			
14. Transport informatior	1			
DOT				
UN number	UN3018			
UN proper shipping name Transport hazard class(es)	Organopho	osphorus pesticides, liquid, toxic (Dichlorvo	os RQ = 10), MARINE POLLUTANT	
Class Subsidiary risk	6.1(PGIII)			
Label(s)	- 6.1			
Packing group	III			
Environmental hazards				
Marine pollutant	Yes			
· ·	r Read safety instructions, SDS and emergency procedures before handling.			
Special provisions		IB3, N76, T7, TP2, TP28		
Packaging exceptions Packaging non bulk	203	153		
Packaging bulk	203			
IATA				
UN number	UN3018			
UN proper shipping name	Organopho	sphorus pesticides, liquid, toxic (Diichlorvo	os)	
Transport hazard class(es)				
Class	6.1(PGIII)			
Subsidiary risk	-			
Label(s) Packing group	6.1 III			
Environmental hazards	Yes			
		v instructions SDS and emergency proces	duraa bafara bandling	

Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Read safety instructions, SDS	and emergency procedures before handling.
IMDG	
UN number	UN3018
UN proper shipping name	Organophosphorus pesticides, liquid, toxic (Dichlorvos), MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	
$\land$	

IATA; IMDG



PG III

6

Marine pollutant



**General information** 

DOT Regulated Severe Marine Pollutant. IMDG Regulated Severe Marine Pollutant.

# 15. Regulatory information

15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
	This is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
	DANGER Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist
	. ENVIRONMENTAL HAZARDS This product is toxic to fish, birds, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present (except for application to cranberry bogs) or to intertidal areas below the mean high water mark. Do not allow this material to drift onto neighboring crops or non crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues, or other undesirable results may occur. Do not contaminate water when disposing of equipment washwater or rinsate. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on treated area. Do not apply when bees are visiting ornamentals, weeds, or other vegetation blooming in the treatment area.

PHYSICAL OR CHEMICAL HAZARDS Combustible. Do not use or store near heat or open flame.

TSCA Section 12(b) Export Notification (40 CFR	707, Subpt. D)
Not regulated. CERCLA Hazardous Substance List (40 CFR 302	2.4)
Dichlorvos (DDVP) (CAS 62-73-7) Naphthalene (CAS 91-20-3) SARA 304 Emergency release notification	Listed. Listed.
Dichlorvos (DDVP) (CAS 62-73-7)	10 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

		quantity (pounds)	planning quantity (pounds)	planning quantity, lower value (pounds)	planning quantity, upper value (pounds)
Dichlorvos (DDVP) 6	2-73-7	10	1000		
SARA 311/312 Hazardous chemical	Yes				
Classified hazard categories	Acute toxici Serious eye Germ cell m Carcinogen	ty (any route of damage or eye nutagenicity icity get organ toxicit	• •	exposure)	
SARA 313 (TRI reporting)					
Chemical name		C	AS number	% by wt.	
Dichlorvos (DDVP)		6	2-73-7	41.4	

Dichlorvos (DDVP) (CAS 62-73-7) Naphthalene (CAS 91-20-3)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

#### US state regulations

**California Proposition 65** 



**WARNING:** This product can expose you to Dichlorvos (DDVP), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Naphthalene (CAS 91-20-3)	Listed: April 19, 2002
Dichlorvos (DDVP) (CAS 62-73-7)	Listed: January 1, 1989

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,2, 4-Trimethylbenzene (CAS 95-63-6)

Naphthalene (CAS 91-20-3)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	Oct-22-2015
Revision date	Jul-27-2018
References	<ul> <li>ACGIH®: American Conference of Governmental Industrial Hygienists</li> <li>CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act</li> <li>EPA: Environmental Protection Agency</li> <li>FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act</li> <li>IARC: International Agency for Research on Cancer</li> <li>NTP: National Toxicology Program</li> <li>OSHA: Occupational Safety and Health Agency</li> <li>SARA: Superfund Amendments and Reauthorization Act</li> <li>TSCA: Toxic Substances Control Act</li> <li>DOT: Department of Transportation</li> <li>IMDG: International Maritime Dangerous Goods</li> <li>IATA: International Air Transport Association</li> </ul>
Version #	3.0
HMIS® ratings	Health: 4* Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 4 Flammability: 2 Instability: 0

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