SAFETY DATA SHEET



1. Identification

Product identifier Prozap® Vapona 400E

Item Number 0176010

Recommended use Organophosphate insecticide. **Recommended restrictions** See product label for restrictions.

EPA Registration number EPA: 5481-204-47000

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name AMVAC Chemical Corporation

Address 4695 MacArthur Court

Suite 1200

Newport Beach, CA 92660

Telephone AMVAC Chemical Corp 949-260-1200

AMVAC Chemical Corp 949-260-6270(FAX)

Website www.amvac.com

E-mail CustServ@amvac.com

 Emergency phone number
 Medical
 888-681-4261

 CHEMTREC®
 800-424-9300

(USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsAcute toxicity, oralCategory 3Acute toxicity, dermalCategory 4Acute toxicity, inhalationCategory 3Serious eye damage/eye irritationCategory 2ACarcinogenicityCategory 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Material name: ProZap® Vapona 400E

Combustible liquid. **Hazard statement**

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 eve 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 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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dichlorvos (DDVP)	DDVP, Nuvan, Vapona, Dimethyl 2,2-dichlorovinyl phosphate	62-73-7	41.4
Aromatic solvent		64742-94-5	45 - 55
Constituents			
Chemical name	Common name and synonyms	CAS number	%
1,2, 4-Trimethylbenzene		95-63-6	< 1
Naphthalene		91-20-3	< 3

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

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.

Material name: ProZap® Vapona 400E

Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions 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.

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

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 blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

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.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

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.

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.

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.

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 containment and cleaning up

Prevent product from entering drains.

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).

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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 Contaminants (29 CFR 1910.1000)

Components	туре	Value	
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

Components	Туре	Value	Form
Aromatic solvent (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
Dichlorvos (DDVP) (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Constituents	Туре	Value	
1,2, 4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	

Material name: ProZap® Vapona 400E

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US. NIOSH: Pocket Guide to Chem Components	nical Hazards Type	Value	
Aromatic solvent (CAS 64742-94-5)	TWA	100 mg/m3	
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 noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Dichlorvos (DDVP) (CAS 62-73-7) Skin designation applies.

US - Tennessee OELs: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Aromatic solvent (CAS 64742-94-5)

Dichlorvos (DDVP) (CAS 62-73-7)

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Dichlorvos (DDVP) (CAS 62-73-7)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Gloves of nitrile rubber, PVA or Viton are

recommended.

Other Wear appropriate chemical resistant 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

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear, pale amber liquid.

Physical state Liquid.

Material name: ProZap® Vapona 400E 876 Version #: 1.0 Revision date: Aug-13-2019 Issue date: Aug-13-2019 Form Liquid.

ColorClear, pale amber.OdorAromatic solventOdor thresholdNot available.

pH 3 - 4.5 (1% emulsion)

Melting point/freezing point

Not available.

Initial boiling point and boiling

326 °F (163 °C) (solvent).

range

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 explosive 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 densityHeavier than air.Relative densityNot 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 density8.93 lb/galExplosive propertiesNot explosive.Flammability classCombustible IIIAOxidizing propertiesNot 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 Hazardous polymerization does not occur.

reactions

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

Information on likely routes of exposure

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

Skin contact Harmful in contact with skin.

Eye contact Causes serious eye irritation.

Ingestion Toxic if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting

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 effects

Toxic if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes severe eye irritation. May **Acute toxicity**

be fatal if swallowed and enters airways.

Product Test Results Species

Prozap® Vapona 400E

Acute

Dermal

LD50 Rabbit 2475 mg/kg

1392 mg/kg female

Inhalation

LC50 Rat 1.04 mg/l

Oral

LD50 55 mg/kg female Rat

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Eve

Causes serious eye irritation.

Prozap® Vapona 400E Result: Extremely irritating

Respiratory or skin sensitization

ACGIH sensitization

DICHLORVOS (DDVP), INHALABLE FRACTION AND Dermal sensitization

VAPOR (CAS 62-73-7)

Respiratory sensitization Not a respiratory sensitizer. Skin sensitization Possible skin sensitizer.

No data available to indicate product or any components present at greater than 0.1% show any Germ cell mutagenicity

germ cell mutation.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Dichlorvos (DDVP) (CAS 62-73-7) 2B Possibly carcinogenic to humans. Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Causes damage to organs. Potential neurotoxicity as an organophosphate.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure. Potential neurotoxicity as an

organophosphate.

May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, **Aspiration hazard**

may cause chemical pneumonia, pulmonary injury or death.

Prolonged inhalation may be harmful. **Chronic effects**

12. Ecological information

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. This product is toxic to fish, **Ecotoxicity**

birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing

of equipment washwaters or wastes.

Components **Species Test Results**

Dichlorvos (DDVP) (CAS 62-73-7)

Aquatic

EC50 0 - 0.0001 mg/l, 48 hours Crustacea Water flea (Daphnia pulex)

Material name: ProZap® Vapona 400E 876 Version #: 1.0 Revision date: Aug-13-2019 Issue date: Aug-13-2019

Test Results Components **Species**

LC50 Cutthroat trout (Oncorhynchus clarki) 0.141 - 0.321 mg/l, 96 hours Fish

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of any ingredients in the mixture.

Mobility in soil No data available.

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 considerations

Disposal instructions 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.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

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 is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Triple rinse (or equivalent).

14. Transport information

DOT

UN number UN3018

UN proper shipping name Transport hazard class(es) Organophosphorus pesticides, liquid, toxic (Dichlorvos RQ = 10), MARINE POLLUTANT

6.1(PGIII) **Class**

Subsidiary risk Label(s) 6.1 Packing group Ш

Environmental hazards

Yes Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB3, N76, T7, TP2, TP28 Special provisions

Packaging exceptions 153 Packaging non bulk 203 Packaging bulk 241

IATA

UN number UN3018

UN proper shipping name Organophosphorus pesticides, liquid, toxic (Diichlorvos)

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1 Packing group Ш **Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN3018 **UN number**

UN proper shipping name

Transport hazard class(es)

Organophosphorus pesticides, liquid, toxic (Dichlorvos), MARINE POLLUTANT

Class 6.1(PGIII)

Subsidiary risk

Label(s) 6.1 Packing group III

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



IATA; IMDG



Marine pollutant



General information

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

Material name: ProZap® Vapona 400E

SDS US

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.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

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

SARA 304 Emergency release notification

PHOSPHORIC ACID, 2-DICHLOROETHENYL 10 LBS

DIMETHYL ESTER (CAS 62-73-7)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

	ning quantity, planning quantity, r value upper value nds) (pounds)
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Dichlorvos (DDVP) 62-73-7 10 1000

SARA 311/312 Hazardous

chemical

Yes

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Dichlorvos (DDVP)	62-73-7	41.4	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

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

Material name: ProZap® Vapona 400E

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

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(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

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

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) Aromatic solvent (CAS 64742-94-5) Naphthalene (CAS 91-20-3)

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic 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 Aug-13-2019
Revision date Aug-13-2019

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 1.0

HMIS® ratings Health: 4*

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 4

Flammability: 2 Instability: 0

Material name: ProZap® Vapona 400E

SDS US

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