## SAFETY DATA SHEET



# Card-O-Vap 8

#### Section 1. IDENTIFICATION

1.1 Product Identifier Date: May 11, 2017

Product Description: Card-O-Vap 8 SDS No.: 500-USA-CPP

Other Means of Identification: Organophosphate Insecticide

CAS Number.: Mixture EPA Registration. No. 8536-41

1.2 Relevant Identified Uses of the Substance or Mixtures and Uses Advised Against

Recommended Use: Insecticide

Uses Advised Against: Use only in accordance with label instructions

Not for use or storage in or around residential sites

1.3 Details of the Supplier of the Safety Data Sheet

Company: Cardinal Professional Products EPA Est. No. 48498-CA-01

PO Box 782

Hollister, CA 95024

Telephone M-F, 8:00-4:30 PDT: 800-548-2223

SDS & Product Information, 8:00-4:30 PDT: 800-548-2223 or 831-637-0195 E-mail: 800-548-2223 or 831-637-0195

1.4 Emergency Telephone Numbers

FOR CHEMICAL EMERGENCY (Spill, Leak, Fire, Exposure, or Accident)

**Call CHEMTREC Day or Night** 

Within USA and Canada: 800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

Poison Control Center: 800-222-1222

NOTE TO PESTICIDE HANDLERS: If the pesticide product end-use labeling contains specific instructions, requirements, or information that conflict with the requirements of the Worker Protection Standard or with this Safety Data Sheet (SDS), **follow the instructions, requirements, or information on the end-use labeling**. If there is a conflict between specific instructions or requirements in the Worker Protection Standard and this SDS, **follow the instructions or requirements of the Worker Protection Standard.** See Section 15 of this SDS for further information.

#### Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

- Flammable Liquid, Category 3 H226
- Acute Toxicity, Category 3 (dermal) H311
- Acute Toxicity, Category 4 (oral) H302
- Acute Toxicity, Category 3 (inhalation) H331
- Skin Corrosion/Irritation, Category 2 H315
- Eye Damage/Irritation, Category 2B H320
- Skin Sensitization, Category 1 H317
- Aspiration Hazard, Category 2 H305
- Hazardous to the Aquatic Environment Acute, Category 1 H400
- Hazardous to the Aquatic Environment Chronic, Category 1 H410

#### 2.2 GHS Label Elements











Signal Word: **DANGER** 

#### **Hazard Statements**

- Flammable liquid and vapors. H226
- Toxic in contact with skin or if inhaled. H311+H331
- Harmful if swallowed. H302
- Causes skin and eye irritation. H315+H320
- May cause an allergic skin reaction. H317
- May be harmful if swallowed and enters airways. H305
- Very toxic to aquatic life. H400
- Very toxic to aquatic life with long lasting effects. H410

#### **Precautionary Statements**

#### Prevention

- Keep away from heat/sparks/open flames/hot surfaces No smoking. P210
- Keep container tightly closed. P233
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- Avoid breathing dust/fume/gas/mist/vapors/spray. P261
- Wash hands and face thoroughly after handling. P264
- Do not eat, drink, or smoke when using this product. P270
- Contaminated work clothing should not be allowed out of the workplace. P272

#### Response

- In case of fire: Use foam, dry chemical or CO<sub>2</sub> extinguisher, water spray (fog) to extinguish. P370+378
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water and soap. Wash contaminated clothing before reuse. P303+361+353+352+364
- If skin irritation or rash occurs: Get medical advice or attention. P333+313
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse Mouth. DO NOT induce vomiting. P301+310+330+331
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+340
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+351+338
- If eye irritation persists: Get medical advice/attention. P337+313
- Call a POISON CENTER or doctor/physician if you feel unwell. P312
- Collect spillage. P391

#### Storage

- Store in a well-ventilated place. Keep cool. P403+235
- Keep container tightly closed. P233
- Store locked up. P405

#### Disposal

• Dispose of contents and container in accordance with government regulations. (See Section 13). P501

## 2.3 Other Hazards Not Otherwise Classified - none

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## Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substance

Chemical Identity	Synonyms	CAS Number	% Weight/Weight
Dimethyl 2,2-Dichlorovinyl Phosphate	Dichlorvos, DDVP	62-73-7	8.0*
Petroleum Distillates and Aromatic Naphtha Solvent Blend		Mixture	90.0 – 91.0
Naphthalene		91-20-3	0.60 - 1.20
Cumene		98-82-8	0.12 - 0.60

<sup>\* %</sup> Active ingredient nominal.

## Section 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

General Advice	SEEK MEDICAL ATTENTION IN ALL CASES OF SUSPECTED POISONING		
	IF INHALED:		
	Remove to fresh air.		
Inhalation	• If not breathing, give artificial respiration.		
	If breathing difficult, give oxygen.		
	Get medical attention immediately.		
	IF IN EYES:		
Evec	• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.		
Eyes	• Remove contact lenses, if present, after the first five minutes; then continue rinsing eyes.		
	Call a poison control center or doctor for treatment advice.		
	IF ON SKIN OR CLOTHING:		
Skin	Take off contaminated clothing.		
SKIII	• Rinse skin immediately with plenty of water for 15-20 minutes.		
	Call a poison control center or physician for treatment advice.		
	IF SWALLOWED:		
	Call a poison control center or physician immediately for treatment advice.		
Ingestion	Do not give any liquid to the person.		
	• Do not induce vomiting unless told to do so by a poison control center or physician.		
	Do not give anything by mouth to an unconscious person.		
Protection of First			
Aiders and Medical	Review the pesticide label for additional information.		
Personnel			

#### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

- May be fatal if absorbed through skin.
- Harmful if swallowed.
- Causes moderate eye irritation.
- May cause allergic skin reaction
- Acetyl cholinesterase inhibitor (Dichlorvos)
- Aspiration pneumonia hazard

## 4.3 Indication of Immediate Medical Attention or Special Treatment

- Contains petroleum distillates. Vomiting may cause aspiration pneumonia hazard.
- This product contains an organophosphate insecticide. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning (i.e. atropine for cholinesterase inhibition).

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## Section 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable Extinguishing Media	Foam, dry chemical or CO <sub>2</sub> extinguisher, water spray (fog)
Unsuitable Extinguishing Media	Direct water stream

#### 5.2 Specific Hazards Arising from the Chemical including Hazardous Combustion Products

- Do not use or store near heat or open flame.
- Do not apply this product in or on electrical equipment, due to the possibility of ignition or shock hazard.

Hazardous Combustion Products	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride, phosphorus oxides sulfur oxides.	
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#### 5.3 Advice for Fire Fighters

Special Protective Equipment	Wear self-contained breathing apparatus and full turnout gear for fire situations.
Precautions for Fire Fighters	<ul><li>Stay upwind.</li><li>Do not breathe vapors.</li></ul>
Tresdutions for the righters	<ul> <li>Move containers from fire area if you can do it without risk.</li> <li>Cool containers with flooding quantities of water until well after fire is out.</li> </ul>

## Section 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

- While wearing personal protective equipment, evacuate personnel and ventilate area.
- Extinguish or remove all sources of potential ignition.
- If indoors, ventilate area of spill.
- Soak up with absorbent material, such as sand, sawdust, earth or fuller's earth, and discard with chemical wastes.
- After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

#### 6.2 Environmental Precautions

- Do not allow spilled or leaking material to enter drains, sewers, or waterways.
- Prevent entry into basements and other confined areas.

### 6.3 Methods and Materials for Containment and Cleaning Up

• Stop leak if without risk. Dike the spilled material where possible with sand, earth, or vermiculite.

### 6.4 Other Information

Refer to protective measures listed in Section 8. For disposal, see Section 13.

Note: Release of 18.8 gallons or more of this product means 10 pounds or more of Dichlorvos has been released and is therefore reportable to the National Response Center and may be reportable to local and state regulators.

## Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for Safe Handling

This product is a highly hazardous material and must be handled with care only by those individuals experienced with its proper use. IF THIS PRODUCT IS BEING APPLIED AND THE INFORMATION IN THIS SDS DIFFERS FROM THAT ON THE END USE LABELING FOR THIS PRODUCT, THE HANDLER MUST FOLLOW THE PRECAUTIONARY STATEMENTS ON THE END USE LABELING.

- Take prudent precautions to avoid contact with skin, eyes, and clothing.
- Take prudent precautions to avoid breathing vapors and/or spray mists of this product.
- Wear PPE in accordance with the product's end-use label (See Section 8).
- Mechanical ventilation should be used when handling this product in enclosed spaces.

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- Do not contaminate water, food, or feedstuffs by storage, handling, or disposal.
- Avoid contact with incompatible materials. See Section 10 for specific materials to avoid.
- Always have adequate clean water available to wash the skin.
- Keep away from heat, sparks, or open flame.
- This product contains petroleum distillates, for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material. Use explosion-proof electrical equipment in accordance with the National Electrical Code as appropriate for hazardous atmospheres. Use only non-sparking tools if potential for flammable atmosphere.
- Wash hands and face before eating, drinking, or smoking after handling material. Handle in accordance with good industrial hygiene and safety practice.
- Read and observe all precautions and instructions on the label.

## 7.2 Conditions for Safe Storage

- KEEP OUT OF REACH OF CHILDREN
- Store product in original container.
- Containers should be tightly closed and stored in a cool, dry, well-ventilated area under lock and key (secured).
- Keep away from heat, open flame, and/or ignition sources.
- Post as a pesticide storage area.
- Do not contaminate water, food, or feed by storage, handling, or disposal.

#### 7.3 Specific End Uses

Use only in accordance with the product's end use label.

#### Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

#### OCCUPATIONAL EXPOSURE LIMITS FOR <u>Dichlorvos</u> (CAS 62-73-7)

SOURCE OF EXPOSURE LIMIT		VALUE		NOTE
US ACGIH, Threshold Limit Values (TLVs) (Basis of TLV is Cholinesterase Inhibition)	TWA	0.1 mg/m <sup>3</sup>	0.01 ppm	Skin
US OSHA, Table Z-1 Limits for Air Contaminants, 29 CFR 1910.1000, Permissible Exposure Limit	TWA	1.0 mg/m <sup>3</sup>	0.1 ppm	Skin
US NIOSH, Recommended Exposure Limits	TWA	$1.0 \text{ mg/m}^3$	0.1 ppm	Skin
US NIOSH, Documentation for Immediately Dangerous to Life or Health	IDLH	100 mg/m <sup>3</sup>	11 ppm	

Monitoring Methods	Dichlorvos Conversion:	1 ppm = 9.02 mg/m <sup>3</sup> @ 25 °C
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#### 8.2 Exposure/Engineering Controls

	· ·
	Wash promptly if skin becomes contaminated.
General Hygiene:	• Wash at the end of each work shift and before eating, drinking, smoking, and using the toilet.
	Handle in accordance with good industrial hygiene and safety practice.
	Use personal protective equipment as required.
	Keep working clothes separate.
	Do not eat, drink, smoke or apply cosmetics when using this product.
	Provide easy access to adequate water supply for eye flushing or skin decontamination in the work
Equipment	area. For field handling and application situations, refer to the pesticide end-use label for
	emergency water requirements.
Ventilation	Mechanical ventilation should be used when handling this product in enclosed spaces. Local
ventilation	exhaust ventilation may be necessary.

#### INDIVIDUAL PROTECTION MEASURES

Eyes/Face	Take prudent precautions to avoid contact with eyes.
Eyes/Face	Wear protective eyewear when handling.

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	Mixers, loaders, applicators and other handlers must wear:
	• long-sleeved shirt,
	• long pants,
Skin	• shoes and socks, and
O.t	• chemical-resistant gloves.
	Note: Some materials that are chemical-resistant to this product are Barrier Laminate, Butyl Rubber,
	Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride or Viton. If you want more options, follow the
	instructions for category "C" on an EPA chemical-resistance category selection chart.
	WHEN APPLYING AS A PESTICIDE, FOLLOW THE END-USE PESTICIDE LABEL
	INSTRUCTIONS FOR RESPIRATORY PROTECTION
	For pesticide application (the instructions in this section are extracted from the product's end-use label:
	Wear a NIOSH-approved respirator with:
Respiratory	an organic-vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH)
Respiratory	approval number prefix TC-23C) or,
	<ul> <li>a canister approved for pesticides (MSHA/NIOSH approval number TC-14G) or,</li> </ul>
	an organic-vapor-removing cartridge or canister with any N, R, P, or HE pre-filter.
	FOR NON-PESTICIDE APPLICATION INHALATION EXPOSURE SCENARIOS
NOTE:	For IDLH (11 ppm) – Immediately Dangerous to Life and Health:
NOTE:	A full facepiece pressure demand SCBA certified for a minimum service life of thirty minutes.
Only	A combination full facepiece pressure demand supplied-air respirator (SAR) with auxiliary self-
respirators certified	contained air supply.
(approved) to	For emergency or planned entry into unknown concentrations:
meet NIOSH	A full facepiece pressure demand SCBA certified for a minimum service life of thirty minutes.
Standards shall	A combination full facepiece pressure demand supplied-air respirator (SAR) with auxiliary self-
be used for	contained air supply.
Respiratory	For escape*
Protection	Air-purifying respirator equipped with full facepiece and an organic vapor cartridge.
1 1010011011	Any air-purifying hood style CBRN escape-certified respirator.
	Air-purifying respirator with canisters that include the escape gas mask (canister) respirator, the
	gas mask (canister) respirator, and the filter self-rescuer.
	Any self-contained breathing apparatus with hood or full-facepiece mask.
	*Respirators <u>certified</u> "escape only" can only be used for escape purposes and CANNOT be used for
	responding to emergencies.

## PERSONAL PROTECTION FOR SPILLS/EMERGENCY

Fire	If fire only, use normal fire-fighting equipment. If chemical releases and fire involved, wear recommended chemical protective clothing in conjunction with fire-fighting gear.		
Spills	Minimum PPE: Full facepiece air-purifying respirator with organic vapor cartridge and chemical resistant gloves. Upgrade respiratory protection in accordance with the "Respiratory" section above.		
	• For small cleanup where liquid splash is unlikely, a liquid impervious chemical coverall with booties and head cover should be worn, for example, Tyvek® QC or Saranex™ SL.		
Chemical Protective Clothing	• For cleanup, where liquid splash or contact is likely, wear a Level B suit made of a material such as Tychem® BR.		
	• In confined areas or areas where substantial vapor levels exist, use a Dupont <sup>™</sup> Responder® level suit or equivalent for use against permeation.		

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## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on Basic Physical and Chemical Properties

Appearance	Colorless
Physical State	Liquid
Odor	Petroleum-like
Odor Threshold	Not available
pН	3.89 (as a 1% w/w solution)
Melting Point	Not applicable
Freezing Point	Not available
Boiling Point	Not available
Boiling Range	Not available
Flash Point (°C)	54.5 °C (130.1 °F) Method: Pensky-Martens Closed Cup
Evaporation Rate	Not available
Flammability (solid, gas)	Combustible Liquid
Flammability Limits in air, Upper % by volume	Not available
Flammability Limits in air, Lower % by volume	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Relative Density (g/cm³) (Specific Gravity)	0.801 @ 20 °C (68 °F) H <sub>2</sub> O = 1
Density @ 20 °C	6.67  lbs. / gal. (water = $8.33  lbs/gal$ )
	Insoluble in water.
Solubility	Mostly soluble in oil (Product is miscible with aromatic hydrocarbons and is not miscible with aliphatics)
Partition Coefficient	Not available
(n-octanol/water)	Not available
Autoignition Temperature	
Decomposition Temperature	Not available
Viscosity	1.688 centistokes @ 20° C (kinematic)

### 9.2 Other Information

% Volatile 100
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## Section 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

• Hazardous polymerization is not known to occur.

## 10.2 Chemical Stability

• Product is stable.

## 10.3 Possibility of Hazardous Reactions

• No information available.

#### 10.4 Conditions to Avoid

• Exposure to heat or flame from fire

## 10.5 Incompatible Materials

• May react with strong acids, bases, or other strong oxidizing materials.

## 10.6 Hazardous Decomposition Products

• Thermal decomposition in the presence of air may yield acrid smoke. Hydrogen chloride, phosphorus oxide, and carbon oxides.

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## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on Toxicological Effects

## Product Information

GHS Category 4 (Oral)	550 mg/kg	Acute Oral LD <sub>50</sub> Rat (of body weight in female rats), 14 day
GHS Category 3 (Dermal)	853.4 mg/kg	Acute Dermal LD <sub>50</sub> Rat (of body weight in female rats) (between 2,000 - 5,000 mg/kg (of body weight in male rats) 24 hour, 14 day
GHS Category 3 (Inhalation)	>2.1 mg/L	Acute Inhalation LC <sub>50</sub> rat (nose only, male and female rats), 4 hour, 14 day

Skin Corrosion / Irritation	Category 2	Severely irritating to skin of rabbit	
Serious Eye Damage /	Cotogory 2P	Mildly irritating to eye of rabbit.	
Irritation	Category 2B	Windry fifthating to eye of fabbit.	
Irritation to Respiratory Tract		May cause respiratory tract irritation	
Respiratory or Skin	Cotogowy 1	Predictive tests in animals demonstrate that dichlorvos causes skin	
Sensitization	Category 1	sensitization (NIOSH Skin Notation Profiles, 04/2017)	

## Signs & Symptoms of Exposure

Skin	May cause skin irritation. Symptoms include redness and burning of skin. May cause allergic skin reaction. Passage of this product into the body through the skin is possible, and may result in decreased activity of cholinergic activity.		
Eyes	May cause mild eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.		
Ingestion	Swallowing this material may be harmful or fatal. Swallowing this product may result in an aspiration hazard, as it can enter the lungs and cause damage.		
Inhalation	Breathing this material may be harmful or fatal. Symptoms include respiratory tract irritation, vomiting, diarrhea, cough, difficult breathing, shortness of breath, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness, and other nervous system effects). Symptoms are not expected at air concentrations below recommended exposure limits.		
Signs & Symptoms of Cholinesterase Inhibition due to Dichlorvos	Cholinesterase inhibitors can cause eye pain, dim or blurred vision, lachrymation, sweating,		

Chronic Effects	Prolonged or repeated contact may dry skin and cause dermatitis. Symptoms include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.	
Specific Target Organ Toxicity – single exposure	No data available	
Specific Target Organ Toxicity –repeated - exposure	<ul> <li>Repeated-Dose Toxicity:</li> <li>Exposure to the petroleum components in this product has been found to cause kidney damage in male rats but is not expected to occur in humans.</li> <li>Overexposure to the petroleum components in this product has been suggested as the cause of the following effects in laboratory animals – central nervous system damage, cardiovascular effects.</li> <li>Overexposure to the solvent components in this product has been suggested as a cause of the following effects in humans – cataracts, eye damage.</li> </ul>	
Germ Cell Mutagenicity	Negative results based on available data	

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	Data not availa	ble for prod	uct	
	Dichlorvos: Group 2B	IARC	Possibly carcinogenic to humans (1991)	
	Not Listed: Not Listed:	NTP OSHA		
Carcinogenicity	A4	ACGIH	Not classifiable as a human carcinogen	
3 ,	Cumene			
	Group 2B	IARC	Possibly carcinogenic to humans (2013)	
	Not Listed:	OSHA		
	Naphthalene			
	Group 2B	IARC	Possibly carcinogenic to humans (2002)	
	_	NTP	Reasonably anticipated to be a human carcinogen (2004)	
Reproductive Toxicity	Negative results based on available data			
Aspiration Hazard	GHS Category 2			
Aspiration Hazard  If swallowed, aspiration potential is presumed based on petroleum constituents of production production in the production of the producti			tential is presumed based on petroleum constituents of product.	
Interactive Effects	Data not available			
Neurotoxicity	Data not available for product.			
Neurotoxicity	Dichlorvos - Delayed neuropathy observed in chickens (staggered gait)			
Confirmation of	-		osure indicator (BEI) for Dichlorvos. BEI for Acetylcholinesterase	
exposure	Inhibiting Pesticides, which is based on decreased cholinesterase activity in red blood cells.			

## Section 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

12.1 TOXIOITY			
	No data available for product.  Mixture Components Summation Method – GHS Acute Category 1		
	Petroleum Distillates component Based on available data, does not meet classification criteria		
	Dichlorvos component		
Aquatic Toxicity	<ul> <li>Acute Category 1 LC<sub>50</sub> = 0.27 mg/L, 96 hr, Bluegill</li> <li>Acute Category 1 EC<sub>50</sub> = 0.000144 mg/L, 48 hr, Daphnia</li> </ul>		
	Aromatic solvent component  • Acute Category 1		
	Naphthalene component  • Acute Category 2  LC <sub>50</sub> = 6.08 mg/L, 96 hr, Fathead minnow		
	Cumene component  • Acute Category 2		
	Not available for product.		
	Mixture Components Summation Method - GHS Long Term Category 1		
Long Term Ecotoxicity	12% of the mixture consists of ingredients of unknown chronic hazards to the aquatic environment.		
	Dichlorvos component		
	• GHS Long Term Cat 1 NOEC = 0.000120 mg/L, 21 day, Daphnia		
	• GHS Long Term Cat 2 NOEC = 0.070 mg/L, 28 day, Fathead minnow		
	No data available for product		
Terrestrial Toxicity	Dichloryos		
	Toxic to bees and frogs		

## 12.2 Persistence and Biodegradability (Environmental Fate)

- No data available for product
- Dichlorvos is considered biodegradable in aerobic and anaerobic conditions.

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## 12.3 Bioaccumulative Potential

- No data available for product
- Dichlorvos bioaccumulation is considered low.

## 12.4 Mobility in Soil

• Data not available for product.

## 12.5 Results of PBT and vPBT Assessment

• No data available for assessment

#### 12.6 Other Adverse Effects

• This product may be toxic to fish, birds, bees, frogs, and other wildlife.

## 12.7 Additional Information – none

## Section 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods

	Do not apply directly to water.
	Do not contaminate water, food, or feed by storage or disposal.
Safe Handling	• Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.
	Do not discharge effluent containing this product to sewer systems without previously
	notifying the local sewage treatment plant authority.
	For guidance, contact your State Water Board or Regional Office of the EPA.
	Pesticide wastes are acutely toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of local, state, and national regulations.
Disposal of Product	If these wastes cannot be disposed of by use according to label instructions, contact your
·	Pesticide or Environmental Control Agency, a Hazardous Waste representative, or the product manufacturer or distributor for guidance.
	Non-refillable container: Do not reuse or refill container.
Container Disposal	Follow instructions in the Container Handling section of the label for rinsing the container
Container Disposar	prior to recycling or for rinsing and puncturing a hole in the container prior to disposal in a sanitary landfill.

## 13.2 Additional Information – None

## **Section 14. TRANSPORT INFORMATION**

## ADR, IMDG, US DOT, IATA

14.1	UN Number	UN 3018
14.2	UN Proper Shipping Name	Organophosphorus pesticide(s), liquid, toxic
14.3	Transport Hazard Class(es)	6.1
14.4	Packing Group	III

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14.5	Environmental Hazards	Aquatic Toxicity
	Marine Pollutant	Yes, Aquatic
	Hazardous Substance	Yes (Dichlorvos)
	Reportable Quantity	RQ = 10 lbs (Dichlorvos) RQ = 100 lbs (Naphthalene)
		Note: Release of 18.8 gallons or more of this product means 10 pounds or more of Dichlorvos has been released and is therefore reportable to the National Response Center.
14.6	Special Precautions	Containers must be secured against all movement during transport.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
14.8	IATA	Cargo and Passenger - Packing Instruction 655, Max Net Qty/Pkg: 60L Cargo only – Packing Instruction 663, Max Net Qty/PKG: 220L

## Section 15. REGULATORY INFORMATION

### 15.1 Regulatory Information

#### **U.S FEDERAL**

#### **FIFRA**

This chemical is a pesticide product registered by the U.S. Environmental Protection Agency and is subject to certain labeling requirements under US federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the <u>pesticide</u> label.

#### WARNING

- Combustible
- Contains Petroleum Distillate.
- May be fatal if absorbed through the skin.
- Harmful if swallowed.
- Causes moderate eye irritation

OSHA This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## **U.S FEDERAL** (continued)

#### (CERCLA - Superfund): (SARA Title III)

Section 302.4 (RQ)	Dichlorvos, CAS 62-73-7 (	10 lbs)		
Section 302, EHS (TPQ)	Dichlorvos, CAS 62-73-7	(1,000 lbs)		
Section 311/312 (Tier II)	Yes			
SARA Hazard Codes	Product – Immediate Hazard	l, Fire Hazard		
Section 313	This product contains the fol requirements of EPCRA sec Know Act of 1986 (40 CFR	tion 313 of the Emerger		
	<b>CAS Registry Number</b>	<b>Chemical Name</b>	% by Weight	% <u>de Minimus</u>
	62-73-7	Dichlorvos	8.0	0.1
	91-20-3	Naphthalene	0.6 - 1.2	0.1

#### TSCA - Toxic Substances Control Act

TSCA Inventory List, Section 8(b):	All components in this product are listed
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#### **STATE**

(	Components in	this	product car	i he	found	on the	follow	ino state	right-to	-know	lists
•		umo	product car	···	TOUTIO	On un	- 10110 W	me stan	II SIII W	IXIIO W	moto.

Dichlorvos CAS 62-73-7 New Jersey, Pennsylvania Naphthalene CAS 91-20-3 New Jersey, Pennsylvania

Cumene CAS 98-82-8 New Jersey, Pennsylvania, Massachusetts

## California Proposition 65 Component:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Dichlorvos CAS 62-73-7 Naphthalene CAS 91-20-3 Cumene CAS 98-82-8

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

No component is listed

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this product by the supplier.

### Section 16. OTHER INFORMATION

Version 4 Date: May 11, 2017

#### **Revision History:**

01-27-15

04-07-14 Original version

12-10-14 Section 1: Changed emergency phone number

Section 16: Added NFPA information
Section 1: Added e-mail address

05-11-17 Sections 2, 4 & 11: Updated GHS Classification and Toxicological Information to reflect skin

sensitization designation

## NFPA



NFPA Hazard Scale: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

## Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists		
ADR	European Agreement concerning the Internal Carriage of Dangerous Goods by Road		
CAS	Chemical Abstracts Service		
CBRN	Chemical, Biological, Radiological, and Nuclear		
CERCLA	Comprehensive Environmental Response, Compensation, and Liability, Act		
CFR	Code of Federal Regulations		
DOT	Department of Transportation (USA)		
EC <sub>50</sub>	Half Maximal Effective Concentration - concentration of a material in water, a single dose which is		
EC 50	expected to cause a biological effect on 50% of a group of test species.		
EPCRA	Emergency Planning and Community Right to Know Act		
FIFRA	Federal Fungicide, Insecticide, and Rodenticide Act		
IARC	International Agency for Research on Cancer		
	Immediately Dangerous to Life and Health - the maximum airborne concentration from which one		
IDLH	could escape [within 30 minutes] without any escape-impairing symptoms or any irreversible health		
	effects.		
IMDG	International Maritime Dangerous Goods		
LC <sub>50</sub>	Lethal Concentration - median dose at which 50% of test animals die from inhalation		

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$LD_{50}$	Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program
NFPA	National Fire Protection Association
OSHA	Occupational Health and Safety Administration
PBT	Persistent, Bioaccumulative, Toxic
ppm	part per million
PPE	Personal Protective Equipment
SARA	Superfund Amendments and Reauthorization Act
TWA	Time Weighted Average airborne concentration for a worker in an 8 hour day
vPvB	Very Persistent and Very Bioaccumulative

#### Key Literature References and Sources of Data:

- Toxnet Toxicology Data Network, United States National Library of Medicine
- The International Uniform Chemical Information Database (**IUCLID**) Organization for Economic Cooperation and Development (OECD)
- Manufacturer pesticide registration data for US EPA

#### **Warranty**

Notice: The information above is believed to be accurate and represents the best information currently available to us. Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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