This SDS packet was issued with item: 078911795

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078911796 078911797

Bayer HealthCare



SAFETY DATA SHEET RAVAP® EC

Version 1.1

Revision Date 02/08/2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information	
Product Name:	RAVAP® EC
MSDS Number:	122000008512

Use

: Insect-repellent

Company

BAYER HEALTHCARE LLC Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846 USA (800) 633-3796

In case of emergency: (800) 422-9874 Chemtrec: (800) 424-9300 BAYER INFORMATION PHONE:(800) 633-3796 INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER! Combustible Liquid, Do not pierce or burn, even after use. Do not spray on a naked flame, incandescent material and heated equipment., Corrosive Colour: clear Form: liquid Odour: aromatic.

May cause allergic skin reaction. Causes skin burns. Corrosive - causes irreversible eye damage. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects.

Hazard Communication (29CFR 1910.1200)

Acute Eye Hazards

Corrosive - causes irreversible eye damage.

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Version 1.1

Revision Date 02/08/2013

Weight percent 10 - 30%	Components Phenol	CAS-No. 108-95-2
Other Ingredients Weight percent 23%	Components Tetrachlorvinphos	CAS-No. 22248-79-9
5.3%	Dichlorvos	62-73-7

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Note to Physician: This product is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. Product may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO2)

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

Additional advice: Keep away from/remove sources of ignition.

Further AccidentalKeep away from/remove sources of ignition.Release Notes

7. HANDLING AND STORAGE

Handling:

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Phenol (108-95-2)

Dichlorvos (62-73-7)

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

Hand protection:

Hand protection: protective gloves for chemicals made of butyl-rubber Neoprene PVC Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

Eye protection: Safety glasses

Other protective measures:

Wear suitable protective equipment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:
Colour:
Odour:
Melting point:
Density:
Flash point:

clear aromatic > 350 °F 1.055 g/cm³ 154.04 °F (67.8 °C)

liquid

ASTM D 93

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products: Carbon monoxide, Carbon dioxide (CO2)

Oxidizing properties:

No statements available.

Impact Sensitivity:

no data available

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 rat : 500 mg/kg

Acute inhalation toxicity: LC50 2.16 mg/l, 4 h Under the conditions of the test no mortality caused.

Acute dermal toxicity:

LD50 rabbit: > 2,000 mg/kg

SAFETY DATA SHEET RAVAP® EC

Version 1.1

Acute toxicity (other routes of administration): Phenol

LD50 intravenous mouse: 112 mg/kg

Skin irritation:

Result: Skin irritation

Eye irritation:

Result: Eye irritation

Sensitisation: May cause sensitization of susceptible persons.

Genotoxicity in vitro:

Phenol Chromosome aberration test in vitro Result: positve

12. ECOLOGICAL INFORMATION

General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Phenol LC50 8.9 mg/l Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Tetrachlorvinphos LC50 0.5 mg/l Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Dichlorvos LC50 200 µg/l Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

LC50 450 µg/l Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates: Phenol

Phenol EC50 9 mg/l Test species: Daphnia magna (Water flea) Duration of test: 24 h

Tetrachlorvinphos EC50 0.002 mg/l Test species: Daphnia magna (Water flea) Duration of test: 48 h

Dichlorvos LC50 19 µg/l Test species: Daphnia Duration of test: 48 h

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Toxicity to algae:

Phenol IC50 150 mg/l tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 96 h Method: OECD Test Guideline 201

Toxicity to bacteria:

Phenol EC50 766 mg/l tested on: activated sludge micro-organism Duration of test: 3 h

Biodegradability:

Phenol 85 %, 14 d Method: OECD TG 301 C Readily biodegradable, according to appropriate OECD test.

100 %, 6 d Method: OECD TG 302 B

Bioaccumulation:

Phenol

yes, Bioaccumulation is unlikely.

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (CFR)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper shipping name:	N.O.S. (contains DICHLORVOS)
Hazard Class or Division:	9
UN/NA Number:	UN3082
Packaging group	III
Hazard Label(s):	Class 9
Marine Pollutant:	Marine pollutant
<u>Sea transport (IMDG)</u> Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DICHLORVOS)

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Version 1.1	Revision Date 02/08/2013	
Hazard Class or Division:	9	
UN number:	UN3082	
Packaging group:		
Hazard Label(s):	MISCELLANEOUS	
Marine Pollutant:	Marine pollutant	
Air transport (ICAO / IATA ca	rgo aircraft only)	
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (contains DICHLORVOS)	
Hazard Class or Division:	9	
UN/ID Number:	UN3082	
Packaging group:	III	
Hazard Label(s):	MISCELLANEOUS	
Marine Pollutant:	Marine pollutant	
Air transport (ICAO / IATA pa	ssenger and cargo aircraft)	
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (contains DICHLORVOS)	
Hazard Class or Division:	9	
UN/ID Number:	UN3082	
Packaging group:		
Hazard Label(s):	MISCELLANEOUS	
Marine Pollutant:	Marine pollutant	

15. REGULATORY INFORMATION

Other regulations: No statements available. Reportable Quantity 85.6 kg

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components Dichlorvos Phenol

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components Dichlorvos

Phenol

US. EPA CERCLA Hazardous Substances (40 CFR 302)Components

Dichlorvos	Reportable quantity: 10 lbs
Phenol	Reportable quantity: 1000 lbs

Marine Pollutant Components

Dichlorvos

Severe marine pollutant.

Revision Date 02/08/2013

Weight percent	Components	ia Right to Know Substance Lists CAS-No.	
3 - 7%	Dichlorvos	62-73-7	
10 - 30%	Phenol	108-95-2	
New Jersey Envi Substances List		stances List and/or New Jersey RTK Special Haz	ardous
Weight percent	Components	CAS-No.	
3 - 7%	Dichlorvos	62-73-7	
10 - 30%	Phenol	108-95-2	

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Version 5.0



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Product Name:	RAVAP EC
SDS Number:	122000008512

Use

: Restricted Use Pesticide

Company

Bayer HealthCare, LLC Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846 UNITED STATES OF AMERICA (800) 633-3796

In case of emergency: (800) 422-9874 Chemtrec: (800) 424-9300 BAYER INFORMATION PHONE:(800) 633-3796 INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to national GHS implementation:

Flammable liquids, Category 4 (H227) Acute toxicity, Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319) Specific target organ toxicity - repeated exposure, Category 2 (H373)

Label elements

Labelling according to national GHS implementation:



Warning

Hazard statements:

H227 Combustible liquid. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention:



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P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.

Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Hazardous components which must be listed on the label:

Components:	CAS-No.
Tetrachlorvinphos	22248-79-9
Phenol	108-95-2
dichlorvos (ISO)	62-73-7

Other hazards

Other hazards which do not result in classification: The material can accumulate static charge and can therefore cause electrical ignition.

May cause allergic skin reaction. Causes skin burns.

Corrosive - causes irreversible eye damage.

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Suspected of causing genetic defects.

DANGER!

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Hazardous components

Tetrachlorvinphos

Concentration [Weight percent] 23 CAS-No.: 22248-79-9 CAS name: Phosphoric acid, (1Z)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl ester

GHS Classification:



Acute Tox. 4 H302

M-Factor: 100

Phenol Concentration [Weight percent] 14 CAS-No.: 108-95-2 CAS name: Phenol

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GHS Classification:



Skin Corr. 1A H314 Eye Dam. 1 H318 STOT RE 2 H373

dichlorvos (ISO) Concentration [Weight percent] 5.3 CAS-No.: 62-73-7 CAS name: Phosphoric acid, 2,2-dichloroethenyl dimethyl ester

GHS Classification:

Acute Tox. 2 H300 Acute Tox. 1 H330 Acute Tox. 2 H310

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Most important acute symptoms/effects

Symptoms: No information available.

Risks: No information available.

Indication of any immediate medical attention and special treatment needed

No information available.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO2)

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Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions

Methods and materials for containment and cleaning up

Methods for cleaning up: Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

Reference to other sections

Additional advice: Keep away from/remove sources of ignition.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling:

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phenol	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m3	NIOSH REL
		С	15.6 ppm 60 mg/m3	NIOSH REL
		TWA	5 ppm 19 mg/m3	OSHA Z-1

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		TWA	5 ppm 19 mg/m3	OSHA P0
dichlorvos	62-73-7	TWA (Inhalable fraction and vapor)	0.1 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0

Hazardous components without workplace control parameters

Components	CAS-No.
Tetrachlorvinphos	22248-79-9

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
Phenol	108-95-2	Phenol	Urine	End of	250 mg/g	ACGIH
				shift (As	Creatinine	BEI
				soon as		
				possible		
				after		
				exposure		
				ceases)		

Personal protective equipment

i oloonal protootiro oquipin	•	
Respiratory protection	:	Recommended Filter type: Organic vapor with prefilter
		None required for consumer use of this product.
Hand protection		
Hand protection Material	:	Hand protection: protective gloves for chemicals made of
Material	:	butyl-rubber
Material	:	Neoprene
Material	:	PVC
Remarks	:	Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.
Eye protection	:	Safety glasses None required for consumer use of this product.
Protective measures	:	Wear suitable protective equipment. Please consult label for end-user requirements.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:	liquid	
Colour:	clear	
Odour:	aromatic	
Melting point/range:	> 350 °F	
Boiling point/boiling range:	No statements available.	
Density:	1.055 g/cm ³	
Bulk density:	Not applicable	
Vapour pressure:	No statements available.	
Viscosity, dynamic:	No statements available.	
Viscosity, kinematic:	No statements available.	
Flow time:	No statements available.	
Surface tension:	No statements available.	
Water solubility:	No statements available.	
Solubility(ies):	No statements available.	
pH:	No statements available.	
Corrosive to metal:	No statements available.	
Partition coefficient	Tetrachlorvinphos	
(n-octanol/water):	log Pow: 3.53	
	Phenol	
	log Pow: 1.46	
	dichlorvos (ISO) Pow: 1.9	OECD 123
	1000.1.0	
Flash point:	67.8 °C	ASTM D 93
Inflammability (solid, gaseous):	Not applicable	
Explosion limits:	Phenol	
	upper: 9.5 %(V) lower: 1.3 %(V)	
Other information		
Miscibility with water:	No statements available.	

10. STABILITY AND REACTIVITY

Reactivity No statements available.

Reactions with water / air: No statements available.

Ignition temperature: Phenol 595 °C at 1,013 hPa

Burning number: No statements available.

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Chemical stability

No statements available.

Thermal decomposition: No data available

Dust explosion characteristic number: Not applicable

Dust explosion class: Not applicable

Impact sensitivity:

No data available

Hazardous reactions:

No data available

Explosive properties:

No statements available.

Possibility of hazardous reactions

deflagration ability: No statements available.

Smoldering combustion: No statements available.

Conditions to avoid No data available

Minimum ignition energy: No data available

Oxidizing properties: No statements available.

Incompatible materials

Materials to avoid: Oxidizing agents

Hazardous decomposition products Carbon monoxide (CO), Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (R	(at): 500 mg/kg
-------------------------------	-----------------

Acute inhalation toxicity

: LC50: 2.16 mg/l Exposure time: 4 h

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st/mist/aerosol erse effect has been observed in acute conditions of the test no mortality caused. 00 mg/kg
)0 mg/kg
kg nponent/mixture is toxic after single
00 mg/kg nponent/mixture is minimally toxic after :in.
) Ibcutaneous
ng/kg travenous
travenous
g/kg travenous
g/kg traperitoneal
)
g/l st/mist/aerosol
٢g

Phenol:

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Species: Rabbit Result: Causes severe burns.

dichlorvos:

Species: Rabbit Result: May irritate skin.

Serious eye damage/eye irritation

Product:

Result: Eye irritation

Components:

Phenol:

Species: Rabbit Result: Risk of serious damage to eyes.

dichlorvos:

Species: Rabbit Result: May irritate eyes.

Respiratory or skin sensitisation

Product:

Remarks: May cause sensitisation of susceptible persons.

Components:

Tetrachlorvinphos:

Assessment:

Harmful if swallowed., May be harmful in contact with skin.

Phenol:

Species: Guinea pig Result: Does not cause skin sensitisation.

dichlorvos:

Result: May cause an allergic skin reaction.

Germ cell mutagenicity

Components:

Phenol:

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro Result: positive
Germ cell mutagenicity - Assessment	:	Suspected of causing genetic defects.

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Carcinogenicity IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

STOT - repeated exposure

Components:

Phenol:

Assessment: May cause damage to organs through prolonged or repeated exposure.

Components:

Tetrachlorvinphos:

Repeated dose toxicity - : Harmful if swallowed., May be harmful in contact with skin. Assessment

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:			
Tetrachlorvinphos:			
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.5 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.002 mg/l Exposure time: 48 h	
M-Factor (Acute aquatic toxicity)	:	100	
Ecotoxicology Assessment			
Acute aquatic toxicity	:	Very toxic to aquatic life.	
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.	
Phenol:			
Toxicity to fish	:	LC50 (Carassius auratus (goldfish)): 36 - 68 mg/l Exposure time: 96 h	
		Page 10 of 14	
Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460			

RAVAP EC



Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 56 mg/l Exposure time: 48 hdichlorvos: Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 20 Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:LC50 (Leuciscus idus (Golden orfe)): 450 µg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:LC50 (Daphnia (water flea)): 0,19 µg/l Exposure time: 48 hEcotoxicology Assessment Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability Components::Very toxic to aquatic life.	Print
Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): 20 Exposure time: 96 hLC50 (Leuciscus idus (Golden orfe)): 450 μg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:LC50 (Daphnia (water flea)): 0,19 μg/l Exposure time: 48 hEcotoxicology Assessment Acute aquatic toxicity:Very toxic to aquatic life.Persistence and degradability	
Exposure time: 96 h LC50 (Leuciscus idus (Golden orfe)): 450 µg/l Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 0,19 µg/l Exposure time: 48 h Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Persistence and degradability	
Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 0,19 µg/l Exposure time: 48 h Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Persistence and degradability	0 µg/l
aquatic invertebratesExposure time: 48 hEcotoxicology AssessmentVery toxic to aquatic life.Acute aquatic toxicityVery toxic to aquatic life.Persistence and degradability	
Acute aquatic toxicity : Very toxic to aquatic life. Persistence and degradability	
Persistence and degradability	
Components:	
Phenol:	
Biodegradability : Result: rapidly biodegradable Biodegradation: 85 % Exposure time: 14 d Method: OECD 301 C	
Result: rapidly biodegradable Biodegradation: 100 % Exposure time: 6 d Method: OECD 302B	
Bioaccumulative potential	
Components:	
Tetrachlorvinphos:	
Partition coefficient: n- : log Pow: 3.53 octanol/water	
Phenol:	
Bioaccumulation : Remarks: Bioaccumulation is unlikely.	
Partition coefficient: n- : log Pow: 1.46 octanol/water	
dichlorvos:	
Partition coefficient: n- : Pow: 1.9 octanol/water Method: OECD 123	

SAFETY DATA SHEET		BAYER E R
RAVAP EC Version 5.0	Revision Date 09/07/2017	12200008512 Print Date 09/07/2017
Mobility in soil No data available		
Other adverse effects		
Product: Additional ecological information	: Do not allow to enter surface waters or grou	ndwater.

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13. DISPOSAL CONSIDERATIONS

Disposal m	ethods
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Waste from residues	:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14. TRANSPORT INFORMATION

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

Land transport (CFR) Proper shipping name: Hazard Class or Division: UN/NA Number Packaging group Hazard Label(s): Marine pollutant:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DICHLORVOS) 9 3082 III Class 9 Marine pollutant
Sea transport (IMDG) UN Number Description of the goods Class Packaging group IMDG-Labels EmS Number Marine pollutant	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICHLORVOS) 9 III 9 F-A yes
<u>Air transport (IATA)</u> UN Number Description of the goods	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICHLORVOS)

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Class9Packaging groupIIIDangerous goods labels9Environmentally hazardousyes

15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Phenol	108-95-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)			
Phenol	108-95-2	1000	(105)			
*: Calculated RQ exceeds reasonably attainable upper limit.						
SARA 311/312 Hazards	Flammable (gases,		or solids)			
	Acute toxicity (any route of exposure)					
	Skin corrosion or irr					
	Serious eye damage or eye irritation					
	Specific target organ toxicity (single or repeated exposure)					
SARA 302 :						
	Phenol	108-95-2	14 %			
SARA 313 :	The following components are subject to reporting levels					
	established by SARA Title III, Section 313:					
	Phenol	108-95-2	14 %			
US State Regulations						
Massachusetts Right To Know						
Phenol		108-95-2	2			
Pennsylvania Right To Know						
Phenol		108-95-2	,			
New York City Hazardous Subs	1011003					
Phenol California Prop. 65	which is/are know	108-95-2 to the State of C				
Camorina i rop. 05	, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.					
Tetrachlorvinpho		22248-79				
California List of Hazardous Substances						
Phenol		108-95-2				



Revision Date 09/07/2017

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California Permissible Exposure Limits for Chemical Contaminants

Phenol

108-95-2

The components of this product are reported in the following inventories:

dichlorvos

TSCA

Not On TSCA Inventory Tetrachlorvinghos

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Full text of H-Statements mentioned in chapters 2 and 3

- H227 Combustible liquid.
- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.