

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 01/04/2015 Revision date: : Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Custom Pesticide Standard

Product code : AL0-130001
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Laboratory Use Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Certified reference material for laboratory use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova

6390 Joyce Dr. Suite 100

80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336
Aquatic Acute 1 H400
Aquatic Chronic 2 H411

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R20 Xi; R36 N; R50/53 R66

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02



GHS07

GHS09

Signal word (CLP) : Danger
Hazardous ingredients : ethyl acetate

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Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

P403+P235 - Store in a well-ventilated place. Keep cool

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethyl acetate (Component)	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5	99.561	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Hexachlorocyclopentadiene (Component)	(CAS No) 77-47-4 (EC no) 201-029-3 (EC index no) 602-078-00-7	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
methoxychlor (Component)	(CAS No) 72-43-5 (EC no) 200-779-9	0.1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10)
bis(2-ethylhexyl)adipate (Component)	(CAS No) 103-23-1 (EC no) 203-090-1	0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
aldrin (Component)	(CAS No) 309-00-2 (EC no) 206-215-8 (EC index no) 602-048-00-3	0.01	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
dieldrin (Component)	(CAS No) 60-57-1 (EC no) 200-484-5 (EC index no) 602-049-00-9	0.01	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
alachlor (Component)	(CAS No) 15972-60-8 (EC no) 240-110-8 (EC index no) 616-015-00-6	0.01	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
endrin (Component)	(CAS No) 72-20-8 (EC no) 200-775-7 (EC index no) 602-051-00-X	0.01	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
heptachlor (Component)	(CAS No) 76-44-8 (EC no) 200-962-3 (EC index no) 602-046-00-2	0.001	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo[a]pyrene (Component)	(CAS No) 50-32-8 (EC no) 200-028-5 (EC index no) 601-032-00-3	0.001	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

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Name	Product identifier	Specific concentration limits
benzo[a]pyrene (Component)	(CAS No) 50-32-8 (EC no) 200-028-5	(C >= 0.01) Carc. 1B, H350
	(EC index no) 601-032-00-3	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well ventilated area.

well-ventilated area.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment.

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Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a

well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

glasses.







Hand protection : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical

penetration.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin

contact

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless. Odor characteristic рΗ No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature : No data available Decomposition temperature No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Relative density : No data available
Solubility : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

LD60 dermal rat	Hexachlorocyclopentadiene (77-47-4)	
LDS0 dermal rabbit	LD50 oral rat	mg/kg bodyweight; Rat; Experimental value; 690 mg/kg bodyweight; Rat; Experimental value;
LCS0 inhalation rat (mg/l)	LD50 dermal rat	2000-3200,Rat; Experimental value
ATE CLP (clemal)	LD50 dermal rabbit	200 - 340 mg/kg (Rabbit; Experimental value; 430 mg/kg bodyweight; Rabbit)
ATE CLP (dermal) ATE CLP (gases) 100.000 ppm/V4h ATE CLP (yapors) ATE CLP (dust, mist) Jackhior (15972-60-8) LD50 oral rat LD50 oral rat LD50 oral rat 130.000 mg/kg (Rat) LD50 oral rat ATE CLP (dust) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (oral) ATE CLP (dermal) ATE CLP (oral) ATE	LC50 inhalation rat (mg/l)	0.018 mg/l/4h (Rat; Experimental value; 0,04 mg/l/4h; Rat; Experimental value)
ATE CLP (vapors)	ATE CLP (oral)	315.000 mg/kg body weight
ATE CLP (dust, mist) ATE CLP (dust, mist) 0.018 mg/l/4h alachior (15272-60-8) LD50 oral rat 1050 dermal rat 1050 dermal ratbit 1050 dermal rat 110 mg/kg (Ratb) LD50 oral rat 110 mg/kg (Rat) LD50 dermal rat 111 mg/kg (Rat) LD50 dermal rat 119 mg/kg (Rat) 110,000 mg/kg body weight 110,000 mg/kg kgabit)	ATE CLP (dermal)	200.000 mg/kg body weight
ATE CLP (dust, mist)	ATE CLP (gases)	100.000 ppmV/4h
Backlor (15972-60-8)	ATE CLP (vapors)	0.018 mg/l/4h
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ATE CLP (dermal) 3500.000 mg/kg body weight	LD50 dermal rabbit	3500 mg/kg (Rabbit)
Reptachlor (76-44-8)	ATE CLP (oral)	930.000 mg/kg body weight
LD50 oral rat	ATE CLP (dermal)	3500.000 mg/kg body weight
LD50 dermal rat	heptachlor (76-44-8)	
LC50 inhalation rat (mg/l) > 2 mg/l/4h (Rat)	LD50 oral rat	130 mg/kg (Rat)
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ATE CLP (oral) 9110.000 mg/kg body weight ATE CLP (dermal) 8410.000 mg/kg body weight methoxychlor (72-43-5) LD50 oral rat LD50 dermal rat 17600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)		9110 mg/kg (Rat)
ATE CLP (dermal) 8410.000 mg/kg body weight methoxychlor (72-43-5) 5000 mg/kg (Rat) LD50 oral rat 5000 mg/kg (Rat) LD50 dermal rat 7600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)	LD50 dermal rabbit	8410 mg/kg (Rabbit)
ATE CLP (dermal) 8410.000 mg/kg body weight methoxychlor (72-43-5) 5000 mg/kg (Rat) LD50 oral rat 5000 mg/kg (Rat) LD50 dermal rat 7600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)	ATE CLP (oral)	9110.000 mg/kg body weight
LD50 oral rat 5000 mg/kg (Rat) LD50 dermal rat 7600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)	ATE CLP (dermal)	· · · · ·
LD50 oral rat 5000 mg/kg (Rat) LD50 dermal rat 7600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)	methoxychlor (72-43-5)	
LD50 dermal rat 7600 mg/kg (Rat) LD50 dermal rabbit 2800 mg/kg (Rabbit)		5000 mg/kg (Rat)
LD50 dermal rabbit 2800 mg/kg (Rabbit)	LD50 dermal rat	
	LD50 dermal rabbit	
ATE CLP (oral) 5000.000 mg/kg body weight	ATE CLP (oral)	5000.000 mg/kg body weight
ATE CLP (dermal) 2800.000 mg/kg body weight	ATE CLP (dermal)	2800.000 mg/kg body weight

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ethyl acetate (141-78-6)		
LD50 oral rat	5620 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 10200 mg/kg bodyweight; Rat)	
LD50 dermal rabbit	> 18000 mg/kg (Rabbit; Experimental value; 24 hour cuff method; >20000 mg/kg bodyweight; Rabbit)	
LC50 inhalation rat (mg/l)	70.56 mg/l/4h (Rat)	
LC50 inhalation rat (ppm)	19600 ppm/4h (Rat)	
ATE CLP (oral)	5620.000 mg/kg body weight	
ATE CLP (gases)	19600.000 ppmV/4h	
ATE CLP (vapors)	70.560 mg/l/4h	
ATE CLP (dust, mist)	70.560 mg/l/4h	

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Based on available data, the classification criteria are not met

Respiratory or skin sensitization : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

May cause cancer

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1.	Toxicity

Ecology - water : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hexachlorocyclopentadiene (77-47-4)		
LC50 fish 1	0.007 mg/l (96 h; Pimephales promelas; Measured concentration)	
EC50 Daphnia 1	0.210 mg/l (24 h; Daphnia magna; Measured concentration)	
EC50 other aquatic organisms 1	0.19 mg/l (96 h; Selenastrum capricornutum; Growth rate)	
LC50 fish 2	0.13 mg/l (96 h; Lepomis macrochirus; Nominal concentration)	
EC50 Daphnia 2	0.009 mg/l (504 h; Daphnia magna; Reproduction)	
Threshold limit algae 1	< 0.03 mg/l (48 h; Scenedesmus subspicatus; Growth rate)	
alachlor (15972-60-8)		
LC50 fish 1	1.8 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
LC50 fish 2	2.8 mg/l (96 h; Lepomis macrochirus)	
heptachlor (76-44-8)		
LC50 fish 1	0.007 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	0.042 mg/l (48 h; Daphnia pulex)	
LC50 fish 2	0.019 mg/l (96 h; Lepomis macrochirus)	
TLM fish 1	0.00702 mg/l (Pimephales promelas)	
aldrin (309-00-2)		
LC50 fish 1	0.013 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 1	0.028 mg/l (48 h; Daphnia pulex)	
LC50 fish 2	0.018 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
dieldrin (60-57-1)		
LC50 fish 1	0.0012 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	0.19 mg/l (48 h; Daphnia pulex)	
EC50 other aquatic organisms 1	0.240 mg/l (48 h; Simocephalus serrulatis)	

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dieldrin (60-57-1)

Persistence and degradability

dieldrin (60-57-1)			
LC50 fish 2	0.003 mg/l (96 h; Lepomis macrochirus)		
TLM fish 1	0.0079 mg/l (96 h; Lepomis macrochirus)		
TLM fish 2	0.037 ppm (96 h; Carassius auratus)		
Threshold limit algae 1	> 100 ppm (Algae)		
endrin (72-20-8)			
LC50 fish 1	0.0006 mg/l (96 h; Lepomis macrochirus)		
LC50 other aquatic organisms 1	0.0002 mg/l (96 h; Rana sp.)		
EC50 Daphnia 1	0.020 mg/l (48 h; Daphnia pulex)		
EC50 other aquatic organisms 1	0.045 mg/l (48 h; Simocephalus serrulatis)		
LC50 fish 2	0.0006 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 2	0.0042 mg/l (48 h; Daphnia magna)		
TLM fish 1	0.005 ppm (48 h; Cyprinus carpio)		
TLM fish 2	0.0013 mg/l (Pisces)		
Threshold limit other aquatic organisms 1	0.0002 mg/l (96 h; Rana sp.)		
bis(2-ethylhexyl)adipate (103-23-1)			
LC50 fish 1	54 - 150 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 1	> 500 mg/l (48 h; Daphnia magna)		
Threshold limit algae 1	> 500 mg/l (72 h; Scenedesmus subspicatus)		
, and the second	7 300 mg/r (72 m, coeffedesimas sabspicatas)		
methoxychlor (72-43-5)	0.00 //001 0.1 //0 // // //		
LC50 fish 1	0.02 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
LC50 other aquatic organisms 1	3.6 mg/l (50 h; Daphnia magna)		
LC50 fish 2	0.062 mg/l (96 h; Lepomis macrochirus)		
Threshold limit other aquatic organisms 1	3.6 mg/l (50 h; Daphnia magna)		
benzo[a]pyrene (50-32-8)			
LC50 fish 1	0.0056 mg/l (38 h; Pimephales promelas; Lethal)		
LC50 other aquatic organisms 1	> 6.7 mg/l (24 h; Rana sp.)		
EC50 other aquatic organisms 1	0.005 - 4 mg/l (72 h; Chlorophyta; Growth)		
LC50 fish 2	1.2 - 3.7 mg/l (24 h; Poeiciliopsis sp.; Lethal)		
Threshold limit other aquatic organisms 1	> 6.7 mg/l (24 h; Rana sp.)		
Threshold limit algae 1	0.015 mg/l (72 h; Selenastrum capricornutum; Growth)		
ethyl acetate (141-78-6)			
LC50 fish 1	454.7 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 1	2500 mg/l (24 h; Daphnia magna)		
LC50 fish 2	230 mg/l (96 h; Pimephales promelas)		
EC50 Daphnia 2	154 mg/l (48 h; Daphnia magna)		
TLM fish 1	100 - 1000,96 h; Pisces		
TLM other aquatic organisms 1	100 - 1000,96 h		
Threshold limit algae 1	2000 mg/l (96 h; Selenastrum capricornutum; Biomass)		
Threshold limit algae 2	15 mg/l (192 h; Scenedesmus quadricauda; Growth rate)		
12.2. Persistence and degradability			
Custom Pesticide Standard			
Persistence and degradability	May cause long-term adverse effects in the environment.		
Hexachlorocyclopentadiene (77-47-4)			
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.		
alachlor (15972-60-8)			
Persistence and degradability	Biodegradability in soil: no data available.		
heptachlor (76-44-8)			
Persistence and degradability	Not readily biodegradable in water.		
aldrin (309-00-2)			
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil.		
i crossience and degradability	Adsorbs into the soil. Photodegradation in the air.		
dioldrin (60 57 1)			

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Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.

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endrin (72-20-8)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil.	
	Adsorbs into the soil.	
bis(2-ethylhexyl)adipate (103-23-1)		
Persistence and degradability	Readily biodegradable in water.	
methoxychlor (72-43-5)		
Persistence and degradability	Biodegradability in soil: no data available.	
benzo[a]pyrene (50-32-8)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.	
Chemical oxygen demand (COD)	2.92 g O□ /g substance	
ThOD	2.92 g O□ /g substance	
ethyl acetate (141-78-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	0.293 g O□ /g substance	
Chemical oxygen demand (COD)	1.69 g O□ /g substance	
ThOD	1.82 g O□ /g substance	
12.3. Bioaccumulative potential		
Custom Pesticide Standard		
Bioaccumulative potential	Not established.	
·	Not established.	
Hexachlorocyclopentadiene (77-47-4)	1020 /70 h. Lausiagua idua: Statia ayatam)	
BCF fish 1	1230 (72 h; Leuciscus idus; Static system) 323 (384 h; Carassius auratus)	
BCF fish 2		
BCF other aquatic organisms 1	1090 (24 h; Chlorella sp.; Fresh weight)	
BCF other aquatic organisms 2	341 (792 h; Chlorophyta)	
Log Pow	3.99-5.51	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
heptachlor (76-44-8)		
BCF fish 1	17300 (Cyprinus carpio; Test duration: 10 weeks)	
BCF fish 2	21300 (96 h; Cyprinodon variegatus)	
BCF other aquatic organisms 1	200 - 8500 (Crustacea)	
BCF other aquatic organisms 2	17600 (Mollusca)	
Log Pow	5.05 - 6.13	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	
aldrin (309-00-2)		
BCF fish 1	20000 (Cyprinus carpio; Test duration: 10 weeks)	
DCE other aquatic ergonisms 1		
BCF other aquatic organisms 1	12260 (Algae)	
BCF other aquatic organisms 2	12260 (Algae) 350 - 4500 (Mytilidae)	
BCF other aquatic organisms 2 Log Pow	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential	12260 (Algae) 350 - 4500 (Mytilidae)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1)	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000).	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000).	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8)	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5).	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5).	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5).	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF other aquatic organisms 1 BCF other aquatic organisms 2	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis) 4.56 - 5.2 (Experimental value)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF other aquatic organisms 1 BCF other aquatic organisms 2	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis) 4.56 - 5.2 (Experimental value)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis) 4.56 - 5.2 (Experimental value)	
BCF other aquatic organisms 2 Log Pow Bioaccumulative potential dieldrin (60-57-1) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential endrin (72-20-8) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 BCF other aquatic organisms 2 Log Pow Bioaccumulative potential bis(2-ethylhexyl)adipate (103-23-1)	12260 (Algae) 350 - 4500 (Mytilidae) 5.52 - 7.4 (Experimental value) High potential for bioaccumulation (BCF > 5000). 3300 (Salmo trutta) 4430 (Pseudorasbora parva) 2880 (168 h; Crassostrea sp.) 1570 (50 h; Mytilus edulis) 5.4 - 5.61 (Experimental value) High potential for bioaccumulation (Log Kow > 5). 15000 (Salmo trutta; Fresh water) 6400 (Salmo trutta; Salt water) 500 - 2780 (Mytilidae) 1920 (50 h; Mytilus edulis) 4.56 - 5.2 (Experimental value) High potential for bioaccumulation (BCF > 5000).	

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methoxychlor (72-43-5)		
Bioaccumulative potential	No bioaccumulation data available.	
benzo[a]pyrene (50-32-8)		
BCF fish 1	480 (72 h; Leuciscus idus)	
BCF fish 2	70.7 (168 h; Salmo salar; Eggs)	
BCF other aquatic organisms 1	3000 (192 h; Crassostrea sp.)	
BCF other aquatic organisms 2	1.5 (24 h; Daphnia magna)	
Log Pow	5.97 - 6.06	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
ethyl acetate (141-78-6)		
BCF fish 1	30 (3 days; Leuciscus idus)	
Log Pow	0.68 (Experimental value; EPA OPPTS 830.7560; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil		
Hexachlorocyclopentadiene (77-47-4)		
Surface tension	0.0375 N/m (20 °C)	
alachlor (15972-60-8)		
Ecology - soil	Not toxic to bees in normal conditions of use.	
heptachlor (76-44-8)		
Ecology - soil	Not toxic to plants. Not toxic to bees in normal conditions of use.	
aldrin (309-00-2)		
Ecology - soil	Soil contaminant. Not toxic to plants. Toxic to bees.	
dieldrin (60-57-1)		
Ecology - soil	Soil contaminant. Toxic to bees.	
endrin (72-20-8)		
Ecology - soil	Toxic to flora. Toxic to fauna. Toxic to bees.	
ethyl acetate (141-78-6)		
Surface tension	0.024 N/m (20 °C)	

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1993 UN-No. (IATA) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

Class (ADR) : 3
Classification code (ADR) : F1
Class (IATA) : 3

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Hazard labels (ADR) : 3



Hazard labels (IATA) : 3



14.4. Packing group

Packing group (ADR) : II Packing group (IATA) : II

14.5. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Orange plates :

33 1993

Special provision (ADR) : 274, 601, 640D

Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L PCA packing instructions (IATA) : 353 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA max net quantity (IATA) : 5L PCA Excepted quantities (IATA) : E2 : 3H ERG code (IATA)

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

Custom Pesticide Standard - hexachlorocyclopentadiene - ethyl acetate

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according to Regulation (EC) No. 453/2010

3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Custom Pesticide Standard - ethyl acetate
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Custom Pesticide Standard - hexachlorocyclopentadiene - aldrin - dieldrin - heptachlor - alachlor - ethyl acetate - methoxychlor - endrin - bis(2-ethylhexyl)adipate - benzo[a]pyrene
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Custom Pesticide Standard - hexachlorocyclopentadiene - aldrin - dieldrin - heptachlor - alachlor - methoxychlor - endrin - bis(2-ethylhexyl)adipate - benzo[a]pyrene
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	benzo[a]pyrene
29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4	benzo[a]pyrene
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Toxic to Reproduction category 1A or 1B (Table 3.1) or Toxic to Reproduction category 1 or 2 (Table 3.2) and listed as follows: Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	benzo[a]pyrene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Custom Pesticide Standard - ethyl acetate
50.a. Polycyclic-aromatic hydrocarbons (PAH): Benzo[a]pyrene (BaP)	benzo[a]pyrene

Contains no REACH candidate substance ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances ≥ to the Annex XIV limit value

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and

mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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