

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

1.1. Product identifier

Product form : Mixture
Product name : Custom Pesticides Mix 1-OC
Product code : AL0-130139
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

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
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H336
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

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

F; R11
Xi; R36/38
N; R50/53
R67

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

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Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H410 - Very 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 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use media other than water to extinguish P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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	50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cyclohexane (Component)	(CAS No) 110-82-7 (EC-No.) 203-806-2 (EC index no) 601-017-00-1	49.6	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
aldrin (Component)	(CAS No) 309-00-2 (EC-No.) 206-215-8 (EC index no) 602-048-00-3	0.02	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)
alpha-BHC (Component)	(CAS No) 319-84-6 (EC-No.) 206-270-8 (EC index no) 602-042-00-0	0.02	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
gamma-BHC (Component)	(CAS No) 58-89-9 (EC-No.) 200-401-2 (EC index no) 602-043-00-6	0.02	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
cis-Chlordane (Component)	(CAS No) 5103-71-9	0.02	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
4,4'-DDD (Component)	(CAS No) 72-54-8 (EC-No.) 200-783-0	0.02	Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
4,4'-DDE (Component)	(CAS No) 72-55-9 (EC-No.) 200-784-6	0.02	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-DDT (Component)	(CAS No) 50-29-3 (EC-No.) 200-024-3 (EC index no) 602-045-00-7	0.02	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
dieldrin (Component)	(CAS No) 60-57-1 (EC-No.) 200-484-5 (EC index no) 602-049-00-9	0.02	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)
endrin (Component)	(CAS No) 72-20-8 (EC-No.) 200-775-7 (EC index no) 602-051-00-X	0.02	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	0.02	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)
heptachlor epoxide (isomer B) (Component)	(CAS No) 1024-57-3 (EC-No.) 213-831-0 (EC index no) 602-063-00-5	0.02	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)

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. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Consult a doctor/medical service. Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- 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/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Causes skin irritation.

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.

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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 : Take up in absorbent material. Collect spillage.

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.
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.
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

cis-Chlordane (5103-71-9)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³
4,4'-DDT (50-29-3)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

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 suitable protective clothing. 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.
pH : No data available
Melting point : No data available

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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.

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

aldrin (309-00-2)	
LD50 oral rat	38 mg/kg (Rat)
LD50 dermal rat	90 mg/kg (Rat)
ATE CLP (oral)	38 mg/kg body weight
ATE CLP (dermal)	90 mg/kg body weight
alpha-BHC (319-84-6)	
LD50 oral rat	177 mg/kg (Rat)
ATE CLP (oral)	177 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
gamma-BHC (58-89-9)	
LD50 oral rat	76 mg/kg (Rat; Literature study)
LD50 dermal rat	1000 mg/kg (Rat; Literature study)
LC50 inhalation rat (mg/l)	1.56 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	76 mg/kg body weight
ATE CLP (dermal)	1000 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	1.56 mg/l/4h
ATE CLP (dust, mist)	1.56 mg/l/4h
cis-Chlordane (5103-71-9)	
LD50 oral rat	540 mg/kg
ATE CLP (oral)	540 mg/kg body weight
4,4'-DDD (72-54-8)	
LD50 dermal rabbit	1200 mg/kg
ATE CLP (dermal)	1200 mg/kg body weight

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4,4'-DDE (72-55-9)	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880 mg/kg body weight
4,4'-DDT (50-29-3)	
LD50 oral rat	87 mg/kg
LD50 dermal rabbit	300 mg/kg
ATE CLP (oral)	87 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
dieldrin (60-57-1)	
LD50 oral rat	38 mg/kg (Rat)
ATE CLP (oral)	38 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
endrin (72-20-8)	
LD50 oral rat	3 mg/kg (Rat)
LD50 dermal rat	12 mg/kg (Rat)
LD50 dermal rabbit	60 mg/kg (Rabbit)
ATE CLP (oral)	3 mg/kg body weight
ATE CLP (dermal)	12 mg/kg body weight
heptachlor (76-44-8)	
LD50 oral rat	130 mg/kg (Rat)
LD50 dermal rat	119 mg/kg (Rat)
LC50 inhalation rat (mg/l)	> 2 mg/l/4h (Rat)
ATE CLP (oral)	130 mg/kg body weight
ATE CLP (dermal)	119 mg/kg body weight
heptachlor epoxide (isomer B) (1024-57-3)	
LD50 oral rat	60 mg/kg (Rat)
ATE CLP (oral)	60 mg/kg body weight
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 mg/kg body weight
ATE CLP (gases)	19600 ppmV/4h
ATE CLP (vapors)	70.56 mg/l/4h
ATE CLP (dust, mist)	70.56 mg/l/4h
cyclohexane (110-82-7)	
LD50 oral rat	> 12705 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; >5000 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 19.07 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	> 5540 ppm/4h (Rat)

Skin corrosion/irritation	: Causes skin irritation.
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.

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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 with long lasting effects.

aldrin (309-00-2)	
LC50 fish 1	0.013 mg/l (LC50; 96 h)
alpha-BHC (319-84-6)	
LC50 fish 1	0.01 - 4.4 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.1 mg/l (EC50; 227 h)
gamma-BHC (58-89-9)	
EC50 Daphnia 1	0.516 mg/l (EC50; 48 h)
LC50 fish 2	0.022 mg/l (LC50; 96 h)
cis-Chlordane (5103-71-9)	
LC50 fish 1	0.0074 mg/l <i>Lepomis macrochirus</i> (Bluegill) 96 H
4,4'-DDD (72-54-8)	
LC50 fish 1	0.04 - 0.05 mg/l <i>Lepomis macrochirus</i> (Bluegill) 96.0 h
LC50 other aquatic organisms 1	0.06 - 0.09 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) 96.0 h
EC50 Daphnia 1	0.01 mg/l <i>Daphnia pulex</i> (Water flea) 48 H
LC50 fish 2	3.47 - 5.58 mg/l <i>Pimephales promelas</i> (fathead minnow) 96.0 h
4,4'-DDE (72-55-9)	
LC50 fish 1	0.2 - 0.3 mg/l <i>Lepomis macrochirus</i> (Bluegill) 96 h
LC50 other aquatic organisms 1	0.05 - 0.18 mg/l <i>Salmo salar</i> (Atlantic salmon) 96 h
LC50 fish 2	0.03 - 0.04 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) 96 h
4,4'-DDT (50-29-3)	
LC50 fish 1	0.01 mg/l <i>Pimephales promelas</i> (fathead minnow) 96 h
LC50 other aquatic organisms 1	0.0034 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) 96 h
EC50 Daphnia 1	0.00108 mg/l Immobilization - <i>Daphnia magna</i> (Water flea) 48 h
LC50 fish 2	0.01 mg/l <i>Lepomis macrochirus</i> (Bluegill) 96 h
LOEC (acute)	150 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) 3 d
NOEC (acute)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) 3 d
dieldrin (60-57-1)	
LC50 fish 1	0.0012 mg/l (LC50; 96 h; <i>Salmo gairdneri</i>)
EC50 Daphnia 1	0.19 mg/l (EC50; 48 h)
Threshold limit algae 1	> 100 ppm (EC50)
endrin (72-20-8)	
LC50 fish 2	0.0006 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.0042 mg/l (EC50; 48 h)
heptachlor (76-44-8)	
LC50 fish 1	0.007 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.042 mg/l (EC50; 48 h)
heptachlor epoxide (isomer B) (1024-57-3)	
EC50 Daphnia 1	0.00004 mg/l (LC50; 96 h)
LC50 fish 2	5.37 mg/l (LC50; 96 h)
ethyl acetate (141-78-6)	
LC50 fish 2	230 mg/l (LC50; US EPA; 96 h; <i>Pimephales promelas</i> ; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 2	154 mg/l (EC50; 48 h; <i>Daphnia magna</i>)
cyclohexane (110-82-7)	
LC50 fish 1	4.53 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; <i>Pimephales promelas</i> ; Flow-through system; Fresh water; Experimental value)

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cyclohexane (110-82-7)	
EC50 Daphnia 1	0.9 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	3.428 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)
Threshold limit algae 2	0.925 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)

12.2. Persistence and degradability

Custom Pesticides Mix 1-OC	
Persistence and degradability	May cause long-term adverse effects in the environment.
aldrin (309-00-2)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air.
alpha-BHC (319-84-6)	
Persistence and degradability	Not readily biodegradable in water.
gamma-BHC (58-89-9)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil under anaerobic conditions. No inhibition of biodegradation process in the soil. Not readily biodegradable in the soil. Adsorbs into the soil.
ThOD	0.66 g O /g substance
dieldrin (60-57-1)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
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.
heptachlor (76-44-8)	
Persistence and degradability	Not readily biodegradable in water.
heptachlor epoxide (isomer B) (1024-57-3)	
Persistence and degradability	Forming sediments in water. Adsorbs into the soil.
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
cyclohexane (110-82-7)	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0.22 g O /g substance
ThOD	3.425 g O /g substance
BOD (% of ThOD)	< 0.5 (Literature study)

12.3. Bioaccumulative potential

Custom Pesticides Mix 1-OC	
Bioaccumulative potential	Not established.
aldrin (309-00-2)	
BCF fish 1	20000 (BCF)
BCF other aquatic organisms 1	12260 (BCF)
BCF other aquatic organisms 2	350 - 4500 (BCF)
Log Pow	5.52 - 7.4 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
alpha-BHC (319-84-6)	
BCF fish 1	17000 (BCF; 24 h; Poecilia reticulata)
BCF fish 2	540 (BCF; 24 h)
BCF other aquatic organisms 1	160 (BCF)
BCF other aquatic organisms 2	> 8000 (BCF; 24 h; Artemia salina)
Log Pow	3.81 - 3.89
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).

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gamma-BHC (58-89-9)	
BCF other aquatic organisms 1	2610 (BCF)
BCF other aquatic organisms 2	240 (BCF; 24 h)
Log Pow	3.57 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
4,4'-DDD (72-54-8)	
Log Pow	6.02
4,4'-DDE (72-55-9)	
BCF fish 1	12037 Gambusia affinis (Mosquito fish)
Log Pow	6.51
4,4'-DDT (50-29-3)	
BCF fish 1	46670 Oncorhynchus mykiss (rainbow trout) 20 d
Log Pow	6.91
dieldrin (60-57-1)	
BCF fish 1	3300 (BCF)
BCF fish 2	4430 (BCF)
BCF other aquatic organisms 1	2880 (BCF; 168 h)
BCF other aquatic organisms 2	1570 (BCF; 50 h)
Log Pow	5.4 - 5.61 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
endrin (72-20-8)	
BCF fish 1	15000 (BCF)
BCF fish 2	6400 (BCF)
BCF other aquatic organisms 1	500 - 2780 (BCF)
BCF other aquatic organisms 2	1920 (BCF; 50 h)
Log Pow	4.56 - 5.2 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
heptachlor (76-44-8)	
BCF fish 1	17300 (BCF)
BCF fish 2	21300 (BCF; 96 h)
BCF other aquatic organisms 1	200 - 8500 (BCF)
BCF other aquatic organisms 2	17600 (BCF)
Log Pow	5.05 - 6.13
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
heptachlor epoxide (isomer B) (1024-57-3)	
BCF fish 1	14455 (BCF; 672 h)
BCF other aquatic organisms 1	1700 (BCF; 50 h)
BCF other aquatic organisms 2	10630 (BCF)
Log Pow	4.43 - 5.40
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
ethyl acetate (141-78-6)	
BCF fish 1	30 (BCF; 3 days; Leuciscus idus; Static system)
Log Pow	0.68 (Experimental value; EPA OPPTS 830.7560; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
cyclohexane (110-82-7)	
BCF fish 2	31 - 129 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.44 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

aldrin (309-00-2)	
Ecology - soil	Soil contaminant. Not toxic to plants. Toxic to bees.
gamma-BHC (58-89-9)	
Log Koc	log Koc,3.04
Ecology - soil	Toxic to bees.
dieldrin (60-57-1)	
Ecology - soil	Soil contaminant. Toxic to bees.

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endrin (72-20-8)	
Ecology - soil	Toxic to flora. Toxic to fauna. Toxic to bees.
heptachlor (76-44-8)	
Ecology - soil	Not toxic to plants. Not toxic to bees in normal conditions of use.
ethyl acetate (141-78-6)	
Surface tension	0.024 N/m (20 °C)
cyclohexane (110-82-7)	
Surface tension	0.025 N/m (20 °C)
Log Koc	log Koc,Other; 2.89; QSAR; Koc; Other; 770; QSAR

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

Product/Packaging 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
UN-No. (IMDG) : 1993
UN-No. (ADN) : 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.
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (ADN) : 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
Class (IMDG) : 3
Class (ADN) : 3
Classification code (ADN) : F1
Hazard labels (ADR) : 3



Hazard labels (IATA) : 3



Hazard labels (IMDG) : 3



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Hazard labels (ADN) : 3



14.4. Packing group

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



Special provision (ADR) : 274, 601, 640D
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2

14.6.2. Transport by sea

Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP8, TP28
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : B

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
Special provision (IATA) : A3
ERG code (IATA) : 3H

14.6.4. Inland waterway transport

Special provision (ADN) : 274, 601, 640D
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

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Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
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

Contains no REACH substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

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.

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