

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 22/08/2017 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 508 Mix Product code : AL0-130147

Product group : Trade product

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

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

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

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

SECTION 2: Hazards identification

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 1 H410

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

F; R11

Xi; R36 N; R50/53

R66

R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

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

Hazard pictograms (CLP)







GHS02

Signal word (CLP) : Danger

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

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 P337+P313 - If eye irritation persists: Get medical advice/attention 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 EUH066 - Repeated exposure may cause skin dryness or cracking

No labeling applicable

EUH phrases

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone (Component)	(CAS No) 67-64-1 (EC-No.) 200-662-2 (EC index no) 606-001-00-8	99.89	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
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)
gamma-BHC (Component)	(CAS No) 58-89-9 (EC-No.) 200-401-2 (EC index no) 602-043-00-6	0.01	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	0.01	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
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)
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	0.01	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)

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
heptachlor epoxide (isomer B) (Component)	(CAS No.) 1024-57-3 (EC-No.) 213-831-0 (EC index no.) 602-063-00-5	0.01	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)
Hexachlorocyclopentadiene (Component)	(CAS No) 77-47-4 (EC-No.) 201-029-3 (EC index no) 602-078-00-7	0.01	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)

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.

Repeated exposure may cause skin dryness or cracking.

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.

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 : 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.

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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/m³)	0.5 mg/m³

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. : No data available pН Melting point No data available : No data available Freezing point Boiling point No data available : No data available Flash point 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

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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
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
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
Hexachlorocyclopentadiene (77-47-4)	
LD50 oral rat	315 mg/kg (Rat; Experimental value; 200 mg/kg bodyweight; Rat; Experimental value; 505 mg/kg bodyweight; Rat; Experimental value; 690 mg/kg bodyweight; Rat; Experimental value; 640 mg/kg bodyweight; Rat)

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Hexachlorocyclopentadiene (77-47-4)	
LD50 dermal rat	2000-3200,Rat; Experimental value
LD50 dermal rabbit	200 - 340 mg/kg (Rabbit; Experimental value; 430 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	0.018 mg/l/4h (Rat; Experimental value; 0,04 mg/l/4h; Rat; Experimental value)
ATE CLP (oral)	315 mg/kg body weight
ATE CLP (dermal)	200 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.018 mg/l/4h
ATE CLP (dust, mist)	0.018 mg/l/4h
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg bodyweight; Rabbit; Weight of evidence)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
ATE CLP (oral)	5800 mg/kg body weight
ATE CLP (dermal)	20000 mg/kg body weight
ATE CLP (gases)	30000 ppmV/4h
ATE CLP (vapors)	71 mg/l/4h
ATE CLP (dust, mist)	71 mg/l/4h
kin corrosion/irritation	: Not classified
	Repeated exposure may cause skin dryness or cracking
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
3 ,	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	: Not classified
xposure	Based on available data, the classification criteria are not met
spiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and lymptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological inforn	nation
2.1. 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)
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 Lepomis macrochirus (Bluegill) 96 H
dieldrin (60-57-1)	
LC50 fish 1	0.0012 mg/l (LC50; 96 h; Salmo gairdneri)
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)
LC50 fish 2	0.0006 mg/l (LC50; 96 h)

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endrin (72-20-8)		
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)	
Hexachlorocyclopentadiene (77-47-4)		
LC50 fish 1	0.007 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)	
EC50 other aquatic organisms 1	0.19 mg/l (96 h; Selenastrum capricornutum; Growth rate)	
acetone (67-64-1)		
LC50 fish 2	5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water;	
2000 11011 2	Experimental value)	
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental	
	value)	
2.2. Persistence and degradability		
Custom 508 Mix	May gayed long term adverse offects in the antilegement	
Persistence and degradability	May cause long-term adverse effects in the environment.	
aldrin (309-00-2)	Tara	
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.	
	7.435135 Into the 301. 1 Hotodogradation in the diff.	
gamma-BHC (58-89-9)	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil	
Persistence and degradability	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.	
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.	
acetone (67-64-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under	
Discharging average demand (DOD)	anaerobic conditions. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	1.43 g O□ /gsubstance	
Chemical oxygen demand (COD)	1.92 g O□ /g substance 2.2 g O□ /g substance	
ThOD BOD (% of ThOD)	0.872 (20 days; Literature study)	
	o.orz (zo days, Enerature study)	
2.3. Bioaccumulative potential		
Custom 508 Mix	Mar and a billion and	
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).	

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gamma-BHC (58-89-9)

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Log Pow 3.57 (Experimental value)	gamma-Brio (00-00-0)	
Log Pow 3.57 (Experimental value)	BCF other aquatic organisms 1	2610 (BCF)
High potential for bioaccumulation (BCF > 6000).	BCF other aquatic organisms 2	
Selection (Selection (Selectio	Log Pow	3.57 (Experimental value)
CFF fish 2	Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
SECF fish 2	dieldrin (60-57-1)	
SECF fish 2	BCF fish 1	3300 (BCF)
SCF other aquatic organisms 1 2880 (BCF, 168 h) 100 (BCF out) 100 (BCF	BCF fish 2	
SCF other aquatic organisms 2	BCF other aquatic organisms 1	2880 (BCF: 168 h)
Log Pow S.4 - S.61 (Experimental value) Bioaccumulation (Log Kow > 5).		
### BCF fish 1	Log Pow	
Section Company Comp	Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
BCF fish 2	endrin (72-20-8)	
SECF fish 2		15000 (BCF)
BCF other aquatic organisms 1		
BCF other aquatic organisms 2		
Log Pow		
Bioaccumulative potential High potential for bioaccumulation (BCF > 5000).		, ,
Neptachlor (76-44-8) 17300 (BCF) BCF fish 1 17300 (BCF) BCF fish 2 21300 (BCF, 96 h) BCF fish 2 21300 (BCF, 96 h) BCF other aquatic organisms 1 200 - 8500 (BCF) BCF other aquatic organisms 2 17600 (BCF) BCF other aquatic organisms 2 17600 (BCF) BCF other aquatic organisms 2 17600 (BCF) Bioaccumulative potential High potential for bioaccumulation (BCF > 5000). Neptachlor opposite (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 10330 (BCF) BCF other aquatic organisms 2 10330 (BCF) Bioaccumulative potential High potential for bioaccumulation (BCF > 5000). Hexachlorocyclopentadiene (77-47-4) BCF fish 1 1230 (BCF, 72 h; Leuciscus idus) BCF other aquatic organisms 1 1090 (BCF, 24 h; Chiorella sp.) Log Pow 3.99-5.51 Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). BCF other aquatic organisms 1 0.68 (BCF) BCF other aquatic organisms 1 3 (BCF; BCFWIN) BCF fish 1 3 (BCF; BCFWIN) BCF other aquatic organisms 1 BCF other aquatic organisms 1		, , ,
BCF fish 1	·	Tight potential for production (201 5000).
BCF fish 2		17200 /DCE)
BCF other aquatic organisms 1		, ,
BCF other aquatic organisms 2 17600 (BCF)		
Log Pow 5.05 - 6.13 High potential High potential for bioaccumulative potential High potential for bioaccumulation (BCF > 5000).		
Bioaccumulative potential High potential for bioaccumulation (BCF > 5000).		, ,
Reptachlor epoxide (isomer B) (1024-57-3) BCF fish 1	<u> </u>	
BCF fish 1		High potential for bloaccumulation (BCF > 5000).
BCF other aquatic organisms 1		
BCF other aquatic organisms 2		` '
Log Pow	(i)	
Bioaccumulative potential High potential for bioaccumulation (BCF > 5000). Hexachlorocyclopentadiene (77-47-4) BCF fish 1		
Hexachlorocyclopentadiene (77-47-4)		
BCF fish 1	Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
BCF other aquatic organisms 1 Log Pow 3.99-5.51 Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). acetone (67-64-1) BCF fish 1 0.69 (BCF) BCF other aquatic organisms 1 3 (BCF; BCFWIN) Log Pow -0.24 (Test data) Bioaccumulative potential Not bioaccumulative. 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 Soil contaminant. Toxic to bees. dieldrin (60-57-1) Ecology - soil Soil contaminant. Toxic to bees. endrin (72-20-8) Ecology - soil Not toxic to plants. Toxic to bees in normal conditions of use. Hexachlor (76-44-8) Ecology - soil Not toxic to plants. Not toxic to bees in normal conditions of use. Hexachlorocyclopentadiene (77-47-4) Surface tension 0.0375 N/m (20 °C) Log Koc Koc, 4265; Experimental value	Hexachlorocyclopentadiene (77-47-4)	
Log Pow 3.99-5.51 Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000). acctore (67-64-1) 0.69 (BCF) BCF fish 1 0.69 (BCF) BCF other aquatic organisms 1 3 (BCF; BCFWIN) Log Pow -0.24 (Test data) Bioaccumulative potential Not bioaccumulative. 12.4. Mobility in soil aldrin (309-00-2) Ecology - soil Ecology - soil Soil contaminant. Not toxic to plants. Toxic to bees. gamma-BHC (58-89-9) Log Koc Log Koc log Koc, 3.04 Ecology - soil Toxic to bees. dieldrin (60-57-1) Ecology - soil Ecology - soil Soil contaminant. Toxic to bees. endrin (72-20-8) Ecology - soil Ecology - soil Toxic to flora. Toxic to fauna. Toxic to bees. heptachlor (76-44-8) Ecology - soil Log Koc Not toxic to plants. Not toxic to bees in normal conditions of use. Hexachlorocyclopentadiene (77-47-4) Surface tension 0.0375 N/m (20 °C) Log Koc Koc,4265; Experimental value	BCF fish 1	1230 (BCF; 72 h; Leuciscus idus)
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BCF fish 1 BCF other aquatic organisms 1 Log Pow -0.24 (Test data) Bioaccumulative potential Not bioaccumulative. 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 Ecology - soil 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. heptachlor (76-44-8) Ecology - soil Not toxic to plants. Not toxic to bees in normal conditions of use. Hexachlorocyclopentadiene (77-47-4) Surface tension 0.0375 N/m (20 °C) Log Koc Koc,4265; Experimental value	Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
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Log Koc Koc,4265; Experimental value		0.0275 N/m /20 °C\
22/08/2017 EN (English US) 8/11	Lug Nuc	NOC,4200, Experimental value
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acetone (67-64-1)	
Surface tension	0.0237 N/m

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



Hazard labels (ADN) : 3



14.4. Packing group	14.4.	Packing group
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Packing group (ADR) : I

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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

 $\begin{tabular}{lll} Hazard identification number (Kemler No.) & : & 33 \\ Classification code (ADR) & : & F1 \\ \end{tabular}$

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

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 : A3 Special provision (IATA) 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

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

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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.

PHV SDS EU

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