Printing date 03/31/2019

gilent

Version Number 2

Reviewed on 03/31/2019

1 Identification

· Product identifier

· Trade name: Organochlorine Pesticides Standard (1X1 mL)

- · Part number: US-112A-1
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA

· Information department:

Telephone: 800-227-9770 e-mail: pdl-msds_author@agilent.com • Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Carc. 1A	H350	May cause cancer.
Repr. 2	H361-H362	Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

GHS07

V	
Acute Tox. 4 H302	Harmful if swallowed.
Acute Tox. 4 H312	Harmful in contact with skin.
Skin Irrit. 2 H315	Causes skin irritation.
STOT SE 3 H336	May cause drowsiness or dizziness.

· Label elements

- \cdot GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



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Trade name: Organochlorine Pesticides Standard (1X1 mL) (Contd. of page 1) · Signal word Danger · Hazard-determining components of labeling: toluene endosulfan sulfate n-hexane γ -HCH or γ -BHC · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed or in contact with skin. Causes skin irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0(Contd. on page 3)

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· HMIS-ratings (scale 0 - 4)

HEALTH *1 Health = *1FIRE Fire = 33 **REACTIVITY** Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	s components:	
108-88-3	toluene	54.255%
110-54-3	n-hexane	41.286%
309-00-2	aldrin (ISO)	0.262%
72-54-8	TDE	0.262%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.262%
50-29-3	DDT (common name not adopted by ISO)	0.262%
60-57-1	dieldrin (ISO)	0.262%
76-44-8	heptachlor (ISO)	0.262%
1024-57-3	heptachlor epoxide - isomer B	0.262%
72-43-5	methoxychlor	0.262%
319-84-6	alpha-BHC (alpha-HCH)	0.262%
319-85-7	(1alpha,2B,3alpha,4B,5alpha,6B)-1,2,3,4,5,6-hexachlorocyclohexane	0.262%
319-86-8	delta-BHC (delta-HCH)	0.262%
58-89-9	γ -HCH or γ -BHC	0.262%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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 \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
108-88-3	toluene	67 ppm
110-54-3	n-hexane	260 ppm
309-00-2	aldrin (ISO)	0.91 mg/m
72-54-8	TDE	2.4 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	6.5 mg/m ³
50-29-3	DDT (common name not adopted by ISO)	3 mg/m ³
60-57-1	dieldrin (ISO)	0.3 mg/m ³
72-20-8	endrin (ISO)	1.8 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m
1024-57-3	heptachlor epoxide - isomer B	0.15 mg/m
72-43-5	methoxychlor	30 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³
· PAC-2:		
108-88-3	toluene	560 ppm
110-54-3	n-hexane	2900* ppn
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309-00-2	aldrin (ISO)	10 mg/m ³
72-54-8		26 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	72 mg/m ³
50-29-3	DDT (common name not adopted by ISO)	34 mg/m ³
60-57-1	dieldrin (ISO)	6.8 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	0.5 mg/m ³
72-43-5	methoxychlor	150 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³
· PAC-3:		
108-88-3	toluene	3700* ppm
110-54-3	n-hexane	8600** ppm
309-00-2	aldrin (ISO)	100 mg/m ³
72-54-8	TDE	160 mg/m ³
	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	170 mg/m ³
50-29-3	DDT (common name not adopted by ISO)	210 mg/m ³
60-57-1	dieldrin (ISO)	450 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	3 mg/m ³
72-43-5	methoxychlor	4,500 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

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• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

 Control paramet 	ers
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· Com	ponents with limit values that require monitoring at the workplace:
108-8	38-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI
110-5	54-3 n-hexane
PEL	Long-term value: 1800 mg/m ³ , 500 ppm
REL	Long-term value: 180 mg/m ³ , 50 ppm
TLV	Long-term value: 176 mg/m ³ , 50 ppm Skin; BEI
1024	-57-3 heptachlor epoxide - isomer B
TLV	Long-term value: 0.05 mg/m ³ Skin
·Ingre	edients with biological limit values:
108-8	38-3 toluene
	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
110-5	54-3 n-hexane
	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2.5-Hexanedione without hydrolysis
	tional information: The lists that were valid during the creation were used as basis.
	(Contd. on page



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· Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin. **Breathing equipment:** When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed. Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge. Protection of hands: Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed. Material of gloves For normal use: nitrile rubber, 11-13 mil thickness For direct contact with the chemical: butyl rubber, 12-15 mil thickness · Penetration time of glove material For normal use: nitrile rubber: 1 hour For direct contact with the chemical: butyl rubber: >4 hours · Eye protection: Tightly sealed goggles **9** Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid According to product specification Color: Characteristic · Odor: Not determined. · Odor threshold: Not determined. · pH-value: · Change in condition Undetermined. Melting point/Melting range: 69 °C (156.2 °F) **Boiling point/Boiling range:** · Flash point: -22 °C (-7.6 °F) Not applicable. · Flammability (solid, gaseous): (Contd. on page 8)



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Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.4 Vol %
Vapor pressure at 20 °C (68 °F):	110 hPa (82.5 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	95.8 %
VOC content:	95.80 %
	958.0 g/l / 8.00 lb/gal
Solids content:	4.5 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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ID/I CS0 values that are relevant for classification:ATE (Acute Toxicity Estimate)OralLD501.4 mg/kgDermalLD501.385 mg/kgInhalativeLC50/4 h36.8 mg/LIO8-88-3 toueneOralLD501.2,124 mg/kg (rabbit)InhalativeLC5001.2,124 mg/kg (rabbit)InhalativeLC5001.2,124 mg/kg (rabbit)InhalativeLC5001.5,230 mg/L (mouse)28.1 mg/L (rat)28.1 mg/L (rat)III-54-3 n-hexaneOralLD505,000 mg/kg (rat)DermalLD505,000 mg/kg (rat)DermalLD503,000 mg/kg (rat)DermalLD5039 mg/kg (rat)DermalLD5039 mg/kg (rat)DermalLD501,200 mg/kg (rabbit)72-54-8 TDETog/kg (rabbit)72-54-8 TDETog/kg (rat)DermalLD50880 mg/kg (rat)OralLD50880 mg/kg (rat)OralLD50880 mg/kg (rat)OralLD50880 mg/kg (rat)OralLD50880 mg/kg (rat)OralLD5038 mg/kg (rat)OralLD5010 mg/kg (rat) <th colspan="6">· Information on toxicological effects · Acute toxicity:</th>	· Information on toxicological effects · Acute toxicity:					
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Inhalative LC50/4 36.8 mg/L 108-88-3 LUEne 5,580 mg/kg (rat) Dermal LD50 12,124 mg/kg (rabbit) Inhalative LC50/4 h 5,320 mg/L (mouse) 28.1 mg/L (rat) 28.1 mg/L (rat) 110-54-3bexane	Oral					
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Dermal LD50 98 mg/kg (rat) 15 mg/kg (rabbit) 72-54-8 J Dermal LD50 1,200 mg/kg (rabbit) 72-55-9 Z, Z-bis(p-c+U-rophenyl)-1,1-dichloroethylene Image: Complex (rabbit) Oral LD50 880 mg/kg (rat) 50-29-3 JT (common name not adopted by ISO) Oral LD50 87 mg/kg (rat) Dermal LD50 87 mg/kg (rat) Oral LD50 87 mg/kg (rat) Dermal LD50 87 mg/kg (rat) Oral LD50 87 mg/kg (rat) Oral LD50 88 mg/kg (rat) Oral LD50 38 mg/kg (nouse) 38 mg/kg (rat) 38 mg/kg (rat) Dermal LD50 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rat) 250 mg/kg (rat) Oral LD50 76 mg/kg (rat) Oral LD50 76 mg/kg (rat) Oral LD50 76 mg/kg (rat) Oral LD50 240 mg/kg (rat)	309-00-2 a	aldrin (ISC))			
72-54-8 TJE Dermal LD50 1,200 mg/kg (rabbit) 72-55-9 Z,Z-bis(p-ct//ophenyl)-1,1-dichloroethylene 1 Oral LD50 880 mg/kg (rat) 50-29-3 JJT (common number of adopted by ISO) 1 Oral LD50 87 mg/kg (rat) Dermal LD50 87 mg/kg (rat) Oral LD50 87 mg/kg (rat) Dermal LD50 87 mg/kg (rat) Oral LD50 38 mg/kg (rat) Oral LD50 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rat) 250 mg/kg (ratbit) 959-98-8	Oral	LD50	39 mg/kg (rat)			
72-54-8 TDE Dermal LD50 1,200 mg/kg (rabbit) 72-55-9 2,2-bis(p-ch/orphenyl)-1,1-dichloroethylene Oral LD50 880 mg/kg (rat) 50-29-3 DDT (common name not adopted by ISO) Oral LD50 87 mg/kg (rat) Dermal LD50 87 mg/kg (rat) 300 mg/kg (rat) Oral LD50 2,510 mg/kg (rat) 300 mg/kg (rat) Oral LD50 38 mg/kg (rat) 300 mg/kg (rat) Oral LD50 38 mg/kg (mouse) 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rat) Oral LD50 10 mg/kg (rat) 250 mg/kg (rat) Oral LD50 76 mg/kg (rat) Oral LD50 <th co<="" td=""><td>Dermal</td><td>LD50</td><td>98 mg/kg (rat)</td></th>	<td>Dermal</td> <td>LD50</td> <td>98 mg/kg (rat)</td>	Dermal	LD50	98 mg/kg (rat)		
DermalLD501,200 mg/kg (rabbit)72-55-9 2,>-bis(p-chryl)-1,1-dichloroethyleneOralLD50880 mg/kg (rat)50-29-3 DT (commune not adopted by ISO)OralLD5087 mg/kg (rat)DermalLD5087 mg/kg (rat)DermalLD502,510 mg/kg (rat)0ralLD5038 mg/kg (rat)0 mg/kg (rat)0ralLD5038 mg/kg (mouse)38 mg/kg (rat)38 mg/kg (rat)0 mg/kg (rat)0ralLD5010 mg/kg (rat)250 mg/kg (rabbit)250 mg/kg (rabbit)0 ral0ralLD5076 mg/kg (rat)0ralLD5076 mg/kg (rat)0ralLD50240 mg/kg (rat)			15 mg/kg (rabbit)			
72-55-9 2,2-bis(p-ch/orophenyl)-1,1-dichloroethyleneOralLD50880 mg/kg (rat)50-29-3 DDT (common name not adopted by ISO)OralLD5087 mg/kg (rat)DermalLD502,510 mg/kg (rat)a00 mg/kg (rat)300 mg/kg (rat)OralLD5038 mg/kg (mouse)Amg/kg (rat)38 mg/kg (rat)DermalLD5010 mg/kg (rat)DermalLD5010 mg/kg (rat)DermalLD5076 mg/kg (rat)DermalLD5076 mg/kg (rat)OralLD5076 mg/kg (rat)OralLD50240 mg/kg (rat)	72-54-8 T	DE				
OralLD50880 mg/kg (rat)50-29-3DT (common name not adopted by ISO)OralLD5087 mg/kg (rat)DermalLD502,510 mg/kg (rat)a00 mg/kg (rabbit)300 mg/kg (rabbit)60-57-1teldrin (ISO)OralLD5038 mg/kg (mouse)a8 mg/kg (rat)38 mg/kg (rat)DermalLD5010 mg/kg (rat)250 mg/kg (rat)250 mg/kg (rabbit)959-98-8 endosulfamOralLD5076 mg/kg (rat)OralLD5076 mg/kg (rat)OralLD50240 mg/kg (rat)	Dermal	LD50	1,200 mg/kg (rabbit)			
50-29-3 DT (common name not adopted by ISO)OralLD5087 mg/kg (rat)DermalLD502,510 mg/kg (rat) 300 mg/kg (rabbit) 300 mg/kg (rabbit) $60-57-1$ dE/drin (ISO) 38 mg/kg (mouse)OralLD50 38 mg/kg (mouse) 38 mg/kg (rat) 38 mg/kg (rat)Dermal 10 mg/kg (rat) 250 mg/kg (rabbit) 250 mg/kg (rabbit)959-98- ErdosulfarOralLD50 10 mg/kg (rat) 250 mg/kg (rabbit)Oral $D50$ 76 mg/kg (rat)OralLD50 76 mg/kg (rat)OralLD50 240 mg/kg (rat)	72-55-9 2,	2-bis(p-ch	lorophenyl)-1,1-dichloroethylene			
Oral LD50 87 mg/kg (rat) Dermal LD50 2,510 mg/kg (rat) 300 mg/kg (rabbit) 300 mg/kg (rabbit) 60-57-1 di-dirtin (ISU) 38 mg/kg (mouse) Oral LD50 38 mg/kg (mouse) Dermal D50 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rat) 250 mg/kg (rabbit) 959-98-8	Oral	LD50	880 mg/kg (rat)			
Dermal LD50 2,510 mg/kg (rat) 300 mg/kg (rabbit) 300 mg/kg (rabbit) 60-57-1 JUDE JUD50 38 mg/kg (mouse) Oral LD50 38 mg/kg (mouse) Dermal LD50 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rabbit) 250 mg/kg (rabbit) 959-98-8	50-29-3 D	DT (comn	on name not adopted by ISO)			
DermalLD502,510 mg/kg (rat) 300 mg/kg (rabbit) $60-57-1 d= l= rm (IS-)$ OralLD5038 mg/kg (mouse) 38 mg/kg (rat)DermalLD5010 mg/kg (rat) 250 mg/kg (rabbit) $959-98-8 = r= u= u=$	Oral	LD50	87 mg/kg (rat)			
60-57-1 300 mg/kg (rabbit) 60-57-1 ister in (ISU) Oral LD50 38 mg/kg (mouse) 38 mg/kg (rat) 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rabbit) 250 mg/kg (rabbit) 959-98-8 endosulfant Oral LD50 76 mg/kg (rat) 33213-65-y endosulfant Oral LD50 240 mg/kg (rat)	Dermal	LD50				
60-57-1 dieldrin (ISO) Oral LD50 38 mg/kg (mouse) 38 mg/kg (rat) 38 mg/kg (rat) Dermal LD50 10 mg/kg (rat) 250 mg/kg (rabbit) 250 mg/kg (rabbit) 959-98-8 endosulfant Oral LD50 76 mg/kg (rat) 33213-65-9 endosulfant Oral LD50 240 mg/kg (rat)						
Dermal J8 mg/kg (rat) 10 mg/kg (rat) 10 mg/kg (rat) 250 mg/kg (rabbit) 250 mg/kg (rabbit) 959-98-8 endosulfant I Oral LD50 76 mg/kg (rat) 33213-65-9 endosulfant I Oral LD50 240 mg/kg (rat)	60-57-1 di	eldrin (IS	0)			
Dermal LD50 10 mg/kg (rat) 250 mg/kg (rabbit) 959-98-8	Oral	LD50	38 mg/kg (mouse)			
Dermal LD50 10 mg/kg (rat) 250 mg/kg (rabbit) 959-98-8			38 mg/kg (rat)			
250 mg/kg (rabbit) 959-98-8 endosulfan I Oral LD50 76 mg/kg (rat) 33213-65-9 endosulfan II Oral LD50 240 mg/kg (rat)	Dermal	LD50				
959-98-8 endosulfan I Oral LD50 76 mg/kg (rat) 33213-65-9 endosulfan II Oral LD50 240 mg/kg (rat)						
33213-65-9 endosulfan II Oral LD50 240 mg/kg (rat)	959-98-8	endosulfar				
Oral LD50 240 mg/kg (rat)	Oral	LD50	76 mg/kg (rat)			
	33213-65-	9 endosulf	an II			
1021 07 9 ondosulfan sulfata	Oral	LD50	240 mg/kg (rat)			
1031-07-0 enuosunan sunate	1031-07-8	endosulfa	n sulfate			
Oral LD50 18 mg/kg (rat)	Oral	LD50	18 mg/kg (rat)			



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			ofpage
	endrin (IS		
Oral	LD50	3 mg/kg (rat)	
Dermal	LD50	60 mg/kg (rat)	
		60 mg/kg (rabbit)	
76-44-8 k	neptachlor	r (ISO)	
Oral	LD50	40 mg/kg (rat)	
Dermal	LD50	119 mg/kg (rat)	
1024-57-	3 heptach	lor epoxide - isomer B	
Oral	LD50	15 mg/kg (rat)	
72-43-5 r	nethoxych	lor	
Oral	LD50	1,855 mg/kg (rat)	
Dermal	LD50	6,000 mg/kg (rat)	
319-84-6	alpha-BH	C (alpha-HCH)	
Oral	LD50	177 mg/kg (rat)	
319-85-7	(1alpha,2	6,3alpha,48,5alpha,68)-1,2,3,4,5,6-hexachlorocyclohexane	
Oral	LD50	6,000 mg/kg (rat)	
319-86-8	delta-BH	C (delta-HCH)	
Oral	LD50	1,000 mg/kg (rat)	
58-89-9 γ	-HCH or	γ-BHC	
Oral	LD50	88 mg/kg (rat)	
Dermal	LD50	900 mg/kg (rat)	
Inhalative	e LC50/41	n 1,560 mg/L (rat)	
on the sk on the ey Sensitiza Addition	e: No irrita tion: No so al toxicolo	to skin and mucous membranes. ating effect. ensitizing effects known. ogical information: the following dangers according to internally approved calculation methods for prepara	ations:
	genic categ	, ,	
(al Agency for Research on Cancer)	
	3 toluene		3
	2 aldrin (I		3
		ommon name not adopted by ISO)	24
	1 dieldrin		3
	8 endrin (1		3
76-44-	8 heptachl	or (ISO)	2H

72-43-5 methoxychlor 319-84-6 alpha-BHC (alpha-HCH)

1024-57-3 heptachlor epoxide - isomer B

319-85-7 (1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane

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58-89-9 γ -HCH or γ -BHC

·NTP (National Toxicology Program)

50-29-3 DDT (common name not adopted by ISO)

319-84-6 alpha-BHC (alpha-HCH)

319-85-7 (1alpha,2B,3alpha,4B,5alpha,6B)-1,2,3,4,5,6-hexachlorocyclohexane

319-86-8 delta-BHC (delta-HCH)

58-89-9 γ -HCH or γ -BHC

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

ls	ls, n.o.s. (Hexanes, Toluen





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	(Contd. of page
IMDG	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), MARINE POLLUTANT
ΙΑΤΑ	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE)
Transport hazard class(es)	
DOT, IATA	
Class	3 Flammable liquids
Label	3
IMDG	
× ×	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: aldrin (ISO), γ -HCH or γ -BHC
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
Transport in bulk according to Annex I	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
nma	On cargo anotan only. Of L
IMDG Limited quantities (LO)	1L
Limited quantities (LQ) Excepted quantities (EQ)	IL Code: E2
Exception quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES,
-	TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

(Contd. on page 13)

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Trade name: Organochlorine Pesticides Standard (1X1 mL)

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15 Regulatory information

Section 3	55 (extremely hazardous substances):
	aldrin (ISO)
72-20-8	endrin (ISO)
58-89-9	γ -HCH or γ -BHC
Section 3	13 (Specific toxic chemical listings):
108-88-3	
110-54-3	n-hexane
309-00-2	aldrin (ISO)
76-44-8	heptachlor (ISO)
72-43-5	methoxychlor
319-84-6	alpha-BHC (alpha-HCH)
58-89-9	γ -HCH or γ -BHC
TSCA (T	oxic Substances Control Act):
108-88-3	toluene
110-54-3	n-hexane
50-29-3	DDT (common name not adopted by ISO)
319-84-6	alpha-BHC (alpha-HCH)
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC (delta-HCH)
58-89-9	γ -HCH or γ -BHC
TSCA ne	w (21st Century Act): (Substances not listed)
	aldrin (ISO)
72-54-8	TDE
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
50-29-3	DDT (common name not adopted by ISO)
	dieldrin (ISO)
	heptachlor (ISO)
	heptachlor epoxide - isomer B
72-43-5	methoxychlor
	alpha-BHC (alpha-HCH)
	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane
	delta-BHC (delta-HCH)
58-89-9	γ-HCH or γ-BHC
Propositi	
	s known to cause cancer:
	aldrin (ISO)
72-54-8	
	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene



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50 20 3 DDT (common name not adopted by IS())	(Contd. of page 1
50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)	
76-44-8 heptachlor (ISO)	
1024-57-3 heptachlor epoxide - isomer B	
319-84-6 alpha-BHC (alpha-HCH)	
319-85-7 (1alpha,2B,3alpha,4B,5alpha,6B)-1,2,3,4,5,6-hexachlorocyclohexane	
319-86-8 delta-BHC (delta-HCH)	
58-89-9 γ -HCH or γ -BHC	
• Chemicals known to cause reproductive toxicity for females:	
50-29-3 DDT (common name not adopted by ISO)	
• Chemicals known to cause reproductive toxicity for males:	
110-54-3 n-hexane	
72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	
50-29-3 DDT (common name not adopted by ISO)	
· Chemicals known to cause developmental toxicity:	
108-88-3 toluene	
72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	
50-29-3 DDT (common name not adopted by ISO)	
72-20-8 endrin (ISO)	
76-44-8 heptachlor (ISO)	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
108-88-3 toluene	
	II
110-54-3 n-hexane	
110-54-3 n-hexane 309-00-2 aldrin (ISO)	П
	II Bž
309-00-2 aldrin (ISO)	II B2 B2
309-00-2 aldrin (ISO) 72-54-8 TDE	II B2 B2 B3 B4 B5
309-00-2 aldrin (ISO) 72-54-8 TDE 72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	II B B B B B
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)	II B2 B2 B3 B4 B5 B6 B7 B8 B9 B1 B2 B3 B4 B5 B6 B1 B2 B3 B4 B5
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)	II B2 B2 B2 B3 B4 B5 B6 B7 B7
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)	II B B B B B B B D B <t< td=""></t<>
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)	II B B B B B B B D B <t< td=""></t<>
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B	II B B B B B B D B <t< td=""></t<>
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor	II B B B B B B D B <t< td=""></t<>
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor319-84-6alpha-BHC (alpha-HCH)	II B C
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor319-84-6alpha-BHC (alpha-HCH)319-85-7(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane319-86-8delta-BHC (delta-HCH)	II B C
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor319-84-6alpha-BHC (alpha-HCH)319-85-7(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane319-86-8delta-BHC (delta-HCH)· TLV (Threshold Limit Value established by ACGIH)	II B B B B B B B B B B B B B B B C D C D
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor319-84-6alpha-BHC (alpha-HCH)319-85-7(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane319-86-8delta-BHC (delta-HCH)• TLV (Threshold Limit Value established by ACGIH)108-88-3toluene	II B <t< td=""></t<>
309-00-2aldrin (ISO)72-54-8TDE72-55-92,2-bis(p-chlorophenyl)-1,1-dichloroethylene50-29-3DDT (common name not adopted by ISO)60-57-1dieldrin (ISO)72-20-8endrin (ISO)76-44-8heptachlor (ISO)1024-57-3heptachlor epoxide - isomer B72-43-5methoxychlor319-84-6alpha-BHC (alpha-HCH)319-85-7(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane319-86-8delta-BHC (delta-HCH)· TLV (Threshold Limit Value established by ACGIH)	II B2 B3 B4 B5 B6 B7 B2 B3 B4 B5 B6 B7 B7



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72-20-8	endrin (ISO)	A4		
	heptachlor (ISO)	A3		
1024-57-3	heptachlor epoxide - isomer B	A3		
72-43-5	methoxychlor	A4		
58-89-9	γ -HCH or γ -BHC	A3		
· NIOSH-C:	·NIOSH-Ca (National Institute for Occupational Safety and Health)			
309-00-2	aldrin (ISO)			
50-29-3	DDT (common name not adopted by ISO)			
60-57-1	dieldrin (ISO)			
76-44-8	heptachlor (ISO)			
1024-57-3	heptachlor epoxide - isomer B			
72-43-5	methoxychlor			

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Date of preparation / last revision 03/31/2019 / 1

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Carc. 1A: Carcinogenicity - Category 1A Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 (Contd. on page 16)



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Asp. Tox. 1: Aspiration hazard – Category 1 • * Data compared to the previous version altered.



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