

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

1 Identification

- **Product identifier**
- **Product Name:** Chlorinated Pesticides Standard (1X1 mL)
- **Part no. :** US-335-1
- **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

Flammable liquids 2

H225

Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1A

H350

May cause cancer.

Reproductive toxicity 2

H361-H362

Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

Specific target organ toxicity (repeated exposure) 1

H372

Causes damage to the nervous system through prolonged or repeated exposure.

Aspiration hazard 1

H304

May be fatal if swallowed and enters airways.



GHS07

Acute toxicity - oral 4

H302

Harmful if swallowed.

Skin irritation 2

H315

Causes skin irritation.

Sensitization - skin 1

H317

May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3

H336

May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 1)

· Hazard pictograms

· Signal word Danger
· Hazard-determining components of labeling:

toluene
endosulfan sulfate
DDT (common name not adopted by ISO)
n-hexane
atrazine (ISO)
alachlor (ISO)

· Hazard statements

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361-H362 Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
H336 May cause drowsiness or dizziness.
H372 Causes damage to the nervous system through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapors.
P260 Do not breathe dusts or mists.
P263 Avoid contact during pregnancy and /while nursing.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P280 Wear protective gloves / protective clothing.
P240 Ground / bond container and receiving equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharge.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see on this label).
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 2)

P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

108-88-3	toluene	55.2978%
110-54-3	n-hexane	42.0801%
50-29-3	DDT (common name not adopted by ISO)	0.1311%
58-89-9	γ -HCH or γ -BHC	0.1311%
60-57-1	dieldrin (ISO)	0.1311%
72-20-8	endrin (ISO)	0.1311%
72-43-5	methoxychlor	0.1311%
72-54-8	TDE	0.1311%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.1311%
76-44-8	heptachlor (ISO)	0.1311%
309-00-2	aldrin (ISO)	0.1311%
319-84-6	alpha-BHC (alpha-HCH)	0.1311%

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 3)

319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	0.1311%
319-86-8	delta-BHC (delta-HCH)	0.1311%
959-98-8	endosulfan I	0.1311%
1024-57-3	heptachlor epoxide - isomer B	0.1311%
1031-07-8	endosulfan sulfate	0.1311%
1912-24-9	atrazine (ISO)	0.1311%
15972-60-8	alachlor (ISO)	0.1311%
33213-65-9	endosulfan II	0.1311%

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:

Supply fresh air and to be sure call for a doctor.

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.

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

· 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 section 13.

Ensure adequate ventilation.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 4)

· Protective Action Criteria for Chemicals
· PAC-1:

108-88-3	toluene	67 ppm
110-54-3	n-hexane	400 ppm
50-29-3	DDT (common name not adopted by ISO)	0.8 mg/m ³
58-89-9	γ -HCH or γ -BHC	0.80 mg/m ³
60-57-1	dieldrin (ISO)	0.50 mg/m ³
72-20-8	endrin (ISO)	0.080 mg/m ³
72-43-5	methoxychlor	30 mg/m ³
72-54-8	TDE	0.80 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	0.80 mg/m ³
76-44-8	heptachlor (ISO)	0.40 mg/m ³
309-00-2	aldrin (ISO)	0.15 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	0.15 mg/m ³

· PAC-2:

108-88-3	toluene	560 ppm
110-54-3	n-hexane	2900 ppm
50-29-3	DDT (common name not adopted by ISO)	83 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³
60-57-1	dieldrin (ISO)	4.5 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
72-43-5	methoxychlor	150 mg/m ³
72-54-8	TDE	83 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	83 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	0.50 mg/m ³

· PAC-3:

108-88-3	toluene	3700 ppm
110-54-3	n-hexane	8600 ppm
50-29-3	DDT (common name not adopted by ISO)	500 mg/m ³
58-89-9	γ -HCH or γ -BHC	1000 mg/m ³
60-57-1	dieldrin (ISO)	27 mg/m ³
72-20-8	endrin (ISO)	2000 mg/m ³
72-43-5	methoxychlor	4500 mg/m ³
72-54-8	TDE	500 mg/m ³
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	500 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	3.0 mg/m ³

· Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 5)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· 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.

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

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

108-88-3 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: 20 ppm BEI, OTO, A4

110-54-3 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, A3
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(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 6)

15972-60-8 alachlor (ISO)

TLV	Long-term value: 1* mg/m ³ , 0.1* ppm Skin, DSEN, *inhalable fraction and vapor, A3
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· Ingredients with biological limit values:
108-88-3 toluene

BEI	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)
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110-54-3 n-hexane

BEI	0.5 mg/L Medium: urine Time: end of shift Parameter: 2,5-Hexanedione without hydrolysis
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **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.
Do not inhale gases / fumes / aerosols.
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

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 7)

- **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

· Physical state	Liquid
· Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined
· Melting point/Melting range:	Undetermined
· Boiling point/Boiling range:	69 °C (156.2 °F)
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	1.2 Vol %
· Upper:	7.4 Vol %
· Flash point:	-22 °C (-7.6 °F)
· Auto igniting:	240 °C (464 °F)
· Decomposition temperature:	Not determined
· pH-value:	Not determined
· Viscosity:	
· Kinematic:	Not determined
· Dynamic:	Not determined
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Vapor pressure at 20 °C (68 °F):	110 hPa (82.5 mm Hg)
· Vapor pressure:	
· Density:	Not determined
· Relative density	Not determined
· Vapor density	Not determined
· Particle characteristics	Not applicable

· Other information

· Appearance:	
· Form:	Liquid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 8)

· Solvent content:	
· Organic solvents:	97.5 %
· VOC content:	97.51 %
	975.1 g/l / 8.14 lb/gal
· Solids content:	2.6 %
· Change in condition	
· Evaporation rate	Not determined

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.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**
ATE (Acute Toxicity Estimate)

Oral	LD50	331 mg/kg
Dermal	LD50	6,730 mg/kg

108-88-3 toluene

Oral	LD50	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)

110-54-3 n-hexane

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rabbit)

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

Oral	LD50	87 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
		300 mg/kg (rabbit)

58-89-9 γ -HCH or γ -BHC

Oral	LD50	88 mg/kg (rat)
Dermal	LD50	900 mg/kg (rat)
Inhalative	LC50/4 h	1,560 mg/L (rat)

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 9)

60-57-1 dieldrin (ISO)

Oral	LD50	38 mg/kg (mouse)
		38 mg/kg (rat)
Dermal	LD50	10 mg/kg (rat)
		250 mg/kg (rabbit)

72-20-8 endrin (ISO)

Oral	LD50	3 mg/kg (rat)
Dermal	LD50	60 mg/kg (rat)
		60 mg/kg (rabbit)

72-43-5 methoxychlor

Oral	LD50	1,855 mg/kg (rat)
Dermal	LD50	6,000 mg/kg (rat)

72-54-8 TDE

Dermal	LD50	1,200 mg/kg (rabbit)
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72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene

Oral	LD50	880 mg/kg (rat)
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76-44-8 heptachlor (ISO)

Oral	LD50	40 mg/kg (rat)
Dermal	LD50	119 mg/kg (rat)

309-00-2 aldrin (ISO)

Oral	LD50	39 mg/kg (rat)
Dermal	LD50	98 mg/kg (rat)
		15 mg/kg (rabbit)

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

Oral	LD50	177 mg/kg (rat)
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319-85-7 (1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane

Oral	LD50	6,000 mg/kg (rat)
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319-86-8 delta-BHC (delta-HCH)

Oral	LD50	1,000 mg/kg (rat)
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959-98-8 endosulfan I

Oral	LD50	76 mg/kg (rat)
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1024-57-3 heptachlor epoxide - isomer B

Oral	LD50	15 mg/kg (rat)
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1031-07-8 endosulfan sulfate

Oral	LD50	18 mg/kg (rat)
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1912-24-9 atrazine (ISO)

Oral	LD50	672 mg/kg (rat)
Dermal	LD50	7,500 mg/kg (rabbit)
Inhalative	LC50/4 h	5,200 mg/L (rat)

15972-60-8 alachlor (ISO)

Oral	LD50	930 mg/kg (rat)
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(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 10)

Dermal	LD50	3,500 mg/kg (rabbit)
33213-65-9 endosulfan II		
Oral	LD50	240 mg/kg (rat)

· Primary irritant effect:
· on the skin: Irritant to skin and mucous membranes.

· on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· Interactive effects No interactive effects between components are known.

· Carcinogenic categories
· IARC (International Agency for Research on Cancer)

108-88-3	toluene	3
50-29-3	DDT (common name not adopted by ISO)	2A
58-89-9	γ -HCH or γ -BHC	1
60-57-1	dieldrin (ISO)	2A
72-20-8	endrin (ISO)	3
72-43-5	methoxychlor	3
76-44-8	heptachlor (ISO)	2B
309-00-2	aldrin (ISO)	2A
319-84-6	alpha-BHC (alpha-HCH)	2B
319-85-7	(1 alpha,2 β ,3 alpha,4 β ,5 alpha,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	2B
1024-57-3	heptachlor epoxide - isomer B	2B
1912-24-9	atrazine (ISO)	3

· NTP (National Toxicology Program)

50-29-3	DDT (common name not adopted by ISO)	R
58-89-9	γ -HCH or γ -BHC	R
319-84-6	alpha-BHC (alpha-HCH)	R
319-85-7	(1 alpha,2 β ,3 alpha,4 β ,5 alpha,6 β)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-86-8	delta-BHC (delta-HCH)	R

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

· Toxicity
· Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

(Contd. on page 12)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 11)

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

- **Other adverse effects**

- **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.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Not Regulated, De minimis Quantities**

-

- **UN-Number**

- **DOT, IMDG, IATA**

UN1993

- **UN proper shipping name**

- **DOT**

Flammable liquids, n.o.s. (Toluene, Hexanes)

- **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEXANES)

- **Transport hazard class(es)**

- **DOT**



- **Class**

3 Flammable liquids

- **Label**

3

- **IMDG**



- **Class**

3 Flammable liquids

(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 12)

· Label	3
· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5L On cargo aircraft only: 60L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-E
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEXANES), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

58-89-9	γ -HCH or γ -BHC
72-20-8	endrin (ISO)
309-00-2	aldrin (ISO)

· Section 313 (Specific toxic chemical listings):

108-88-3	toluene
110-54-3	n-hexane
58-89-9	γ -HCH or γ -BHC
72-43-5	methoxychlor

(Contd. on page 14)

Safety Data Sheet

acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 13)

76-44-8	heptachlor (ISO)
309-00-2	aldrin (ISO)
319-84-6	alpha-BHC (alpha-HCH)
1912-24-9	atrazine (ISO)
15972-60-8	alachlor (ISO)

· TSCA (Toxic Substances Control Act):

108-88-3	toluene	ACTIVE
110-54-3	n-hexane	ACTIVE
50-29-3	DDT (common name not adopted by ISO)	ACTIVE
58-89-9	γ -HCH or γ -BHC	ACTIVE
319-84-6	alpha-BHC (alpha-HCH)	ACTIVE
319-85-7	(1alpha,2β,3alpha,4β,5alpha,6β)-1,2,3,4,5,6-hexachlorocyclohexane	ACTIVE
319-86-8	delta-BHC (delta-HCH)	ACTIVE
1912-24-9	atrazine (ISO)	ACTIVE

· Hazardous Air Pollutants

108-88-3	toluene
110-54-3	n-hexane
58-89-9	γ -HCH or γ -BHC
72-43-5	methoxychlor
76-44-8	heptachlor (ISO)

· Proposition 65
· Chemicals known to cause cancer:

50-29-3	DDT (common name not adopted by ISO)
58-89-9	γ -HCH or γ -BHC
60-57-1	dieldrin (ISO)
72-54-8	TDE
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
76-44-8	heptachlor (ISO)
309-00-2	aldrin (ISO)
319-84-6	alpha-BHC (alpha-HCH)
319-85-7	(1alpha,2β,3alpha,4β,5alpha,6β)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC (delta-HCH)
1024-57-3	heptachlor epoxide - isomer B
15972-60-8	alachlor (ISO)

· Chemicals known to cause reproductive toxicity for females:

50-29-3	DDT (common name not adopted by ISO)
1912-24-9	atrazine (ISO)

· Chemicals known to cause reproductive toxicity for males:

110-54-3	n-hexane
50-29-3	DDT (common name not adopted by ISO)
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene

(Contd. on page 15)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 14)

Chemicals known to cause developmental toxicity:

108-88-3	toluene
50-29-3	DDT (common name not adopted by ISO)
72-20-8	endrin (ISO)
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
76-44-8	heptachlor (ISO)
1912-24-9	atrazine (ISO)

Carcinogenic categories
EPA (Environmental Protection Agency)

108-88-3	toluene	II
110-54-3	n-hexane	II
50-29-3	DDT (common name not adopted by ISO)	B2
60-57-1	dieldrin (ISO)	B2
72-20-8	endrin (ISO)	D
72-43-5	methoxychlor	D
72-54-8	TDE	B2
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	B2
76-44-8	heptachlor (ISO)	B2
309-00-2	aldrin (ISO)	B2
319-84-6	alpha-BHC (alpha-HCH)	B2
319-85-7	(1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	C
319-86-8	delta-BHC (delta-HCH)	D
1024-57-3	heptachlor epoxide - isomer B	B2

TLV (Threshold Limit Value)

108-88-3	toluene	A4
50-29-3	DDT (common name not adopted by ISO)	A3
58-89-9	γ-HCH or γ-BHC	A3
60-57-1	dieldrin (ISO)	(A4)
72-20-8	endrin (ISO)	A4
72-43-5	methoxychlor	A4
76-44-8	heptachlor (ISO)	A3
309-00-2	aldrin (ISO)	A3
1024-57-3	heptachlor epoxide - isomer B	A3
1912-24-9	atrazine (ISO)	A4
15972-60-8	alachlor (ISO)	A3

NIOSH-Ca (National Institute for Occupational Safety and Health)

50-29-3	DDT (common name not adopted by ISO)
60-57-1	dieldrin (ISO)
72-43-5	methoxychlor
76-44-8	heptachlor (ISO)

(Contd. on page 16)

Safety Data Sheet acc. to OSHA HCS

Revision date: 01/28/2026

Product Name: Chlorinated Pesticides Standard (1X1 mL)

(Contd. of page 15)

309-00-2 | aldrin (ISO)

- **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 previous version** 03/29/2025
- **Version number of previous version:** 3
- **Date of preparation** 01/28/2026
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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
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
Flammable liquids 2: Flammable liquids – Category 2
Acute toxicity - oral 4: Acute toxicity – Category 4
Skin irritation 2: Skin corrosion/irritation – Category 2
Sensitization - skin 1: Skin sensitisation – Category 1
Carcinogenicity 1A: Carcinogenicity – Category 1A
Reproductive toxicity 2: Reproductive toxicity – Category 2
Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1
Aspiration hazard 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**

US