

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.01.2026

Version number 4 (replaces version 3)

Revision: 28.01.2026

### 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Chlorinated Pesticides Standard (1X1 mL)
- **Part number:** US-335-1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **1.4 Emergency telephone number:** CHEMTREC®: +(353) 1 901 4670

### 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS08 health hazard

|             |        |                                                                             |
|-------------|--------|-----------------------------------------------------------------------------|
| Repr. 2     | H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.    |
| STOT RE 1   | H372   | Causes damage to the nervous system through prolonged or repeated exposure. |
| Asp. Tox. 1 | H304   | May be fatal if swallowed and enters airways.                               |



GHS09 environment

Aquatic Chronic 2   H411      Toxic to aquatic life with long lasting effects.



GHS07

|               |      |                                    |
|---------------|------|------------------------------------|
| Acute Tox. 4  | H302 | Harmful if swallowed.              |
| Skin Irrit. 2 | H315 | Causes skin irritation.            |
| STOT SE 3     | H336 | May cause drowsiness or dizziness. |

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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#### · Hazard pictograms



#### · Signal word Danger

#### · Hazard-determining components of labelling:

toluene  
endosulfan sulfate  
n-hexane  
endrin (ISO)

#### · Hazard statements

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
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.  
H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P280 Wear protective gloves / protective clothing.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Additional information:

Contains atrazine (ISO), alachlor (ISO). May produce an allergic reaction.

#### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT:** Not applicable

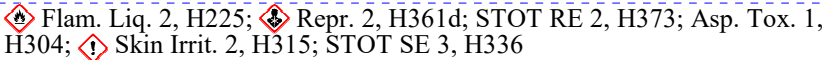
· **vPvB:** Not applicable

## 3 Composition/information on ingredients

#### · 3.2 Mixtures

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

#### · Dangerous components:

|                                    |                                                                                                 |          |
|------------------------------------|-------------------------------------------------------------------------------------------------|----------|
| CAS: 108-88-3<br>EINECS: 203-625-9 | toluene<br> | 55.2978% |
|------------------------------------|-------------------------------------------------------------------------------------------------|----------|

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|                                     |                                                                                                                                                                                  |          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| CAS: 110-54-3<br>EINECS: 203-777-6  | n-hexane<br>⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336                        | 42.0801% |
| CAS: 50-29-3<br>EINECS: 200-024-3   | DDT (common name not adopted by ISO)<br>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410             | 0.1311%  |
| CAS: 58-89-9<br>EINECS: 200-401-2   | γ-HCH or γ-BHC<br>⚠ Acute Tox. 3, H301; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Lact., H362 | 0.1311%  |
| CAS: 60-57-1<br>EINECS: 200-484-5   | dieldrin (ISO)<br>⚠ Acute Tox. 3, H301; Acute Tox. 1, H310; ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                   | 0.1311%  |
| CAS: 72-20-8<br>EINECS: 200-775-7   | endrin (ISO)<br>⚠ Acute Tox. 2, H300; Acute Tox. 3, H311; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                                                       | 0.1311%  |
| CAS: 72-43-5<br>EINECS: 200-779-9   | methoxychlor<br>⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332                                  | 0.1311%  |
| CAS: 72-54-8<br>EINECS: 200-783-0   | TDE<br>⚠ Acute Tox. 3, H301; ⚠ Carc. 2, H351; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312                                                                                    | 0.1311%  |
| CAS: 72-55-9<br>EINECS: 200-784-6   | 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene<br>⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302                                          | 0.1311%  |
| CAS: 76-44-8<br>EINECS: 200-962-3   | heptachlor (ISO)<br>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Carc. 2, H351; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                 | 0.1311%  |
| CAS: 309-00-2<br>EINECS: 206-215-8  | aldrin (ISO)<br>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                     | 0.1311%  |
| CAS: 319-84-6<br>EINECS: 206-270-8  | alpha-BHC (alpha-HCH)<br>⚠ Acute Tox. 3, H301; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312                                                            | 0.1311%  |
| CAS: 319-85-7<br>EINECS: 206-271-3  | (1alpha,2β,3alpha,4β,5alpha,6β)-1,2,3,4,5,6-hexachlorocyclohexane<br>⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312                     | 0.1311%  |
| CAS: 319-86-8<br>EINECS: 206-272-9  | delta-BHC (delta-HCH)<br>⚠ Acute Tox. 3, H301; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312                                                            | 0.1311%  |
| CAS: 959-98-8                       | endosulfan I<br>⚠ Acute Tox. 3, H301; Aquatic Chronic 4, H413                                                                                                                    | 0.1311%  |
| CAS: 1024-57-3<br>EINECS: 213-831-0 | heptachlor epoxide - isomer B<br>⚠ Acute Tox. 3, H301; ⚠ Carc. 2, H351; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                        | 0.1311%  |

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|                                      |                                                                                                                                             |         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 1031-07-8                       | endosulfan sulfate<br>⚠ Acute Tox. 1, H300; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                                | 0.1311% |
| CAS: 1912-24-9<br>EINECS: 217-617-8  | atrazine (ISO)<br>⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410;<br>⚠ Acute Tox. 4, H302; Skin Sens. 1, H317          | 0.1311% |
| CAS: 15972-60-8<br>EINECS: 240-110-8 | alachlor (ISO)<br>⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 | 0.1311% |
| CAS: 33213-65-9                      | endosulfan II<br>⚠ Acute Tox. 3, H301; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 4, H413                                                     | 0.1311% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4 First aid measures

### · 4.1 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:** Call for a doctor immediately.

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

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Firefighting measures

### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

### · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

### · 5.3 Advice for firefighters

· **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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- **6.3 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.
- **6.4 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.

## 7 Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 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 container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 108-88-3 toluene

|     |                                                   |
|-----|---------------------------------------------------|
| OEL | Short-term value: 384 mg/m <sup>3</sup> , 100 ppm |
|     | Long-term value: 192 mg/m <sup>3</sup> , 50 ppm   |
|     | Skin, IOELV                                       |

##### 110-54-3 n-hexane

|     |                                                |
|-----|------------------------------------------------|
| OEL | Long-term value: 72 mg/m <sup>3</sup> , 20 ppm |
|     | IOELV, Skin                                    |

##### 1024-57-3 heptachlor epoxide - isomer B

|     |                                         |
|-----|-----------------------------------------|
| OEL | Long-term value: 0.05 mg/m <sup>3</sup> |
|-----|-----------------------------------------|

##### 15972-60-8 alachlor (ISO)

|     |                                      |
|-----|--------------------------------------|
| OEL | Long-term value: 1 mg/m <sup>3</sup> |
|     | Inhalable fraction and vapour        |

- **Additional information:** The lists valid during the making were used as basis.

### · 8.2 Exposure controls

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

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· **Individual protection measures, such as 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.

· **Respiratory protection:**

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.

· **Hand protection**

Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil 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/face protection**



Tightly sealed goggles

## 9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

|                                                                   |                                    |
|-------------------------------------------------------------------|------------------------------------|
| · <b>Physical state</b>                                           | Liquid                             |
| · <b>Colour:</b>                                                  | According to product specification |
| · <b>Odour:</b>                                                   | Characteristic                     |
| · <b>Odour threshold:</b>                                         | Not determined                     |
| · <b>Melting point/freezing point:</b>                            | Undetermined                       |
| · <b>Boiling point or initial boiling point and boiling range</b> | 69 °C                              |
| · <b>Flammability</b>                                             | Highly flammable.                  |
| · <b>Lower and upper explosion limit</b>                          |                                    |
| · <b>Lower:</b>                                                   | 1.2 Vol %                          |
| · <b>Upper:</b>                                                   | 7.4 Vol %                          |
| · <b>Flash point:</b>                                             | -22 °C                             |
| · <b>Auto-ignition temperature:</b>                               | 240 °C                             |
| · <b>Decomposition temperature:</b>                               | Not determined                     |

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|                                                                                 |                                                                                             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| · pH                                                                            | Not determined                                                                              |
| · Viscosity:                                                                    |                                                                                             |
| · Kinematic viscosity                                                           | Not determined                                                                              |
| · Dynamic:                                                                      | Not determined                                                                              |
| · Solubility                                                                    |                                                                                             |
| · water:                                                                        | Not miscible or difficult to mix.                                                           |
| · Partition coefficient n-octanol/water (log value)                             | Not determined                                                                              |
| · Vapour pressure at 20 °C:                                                     | 110 hPa                                                                                     |
| · Density and/or relative density                                               |                                                                                             |
| · Density:                                                                      | Not determined                                                                              |
| · Relative density                                                              | Not determined                                                                              |
| · Vapour density                                                                | Not determined                                                                              |
| · <b>9.2 Other information</b>                                                  |                                                                                             |
| · Appearance:                                                                   |                                                                                             |
| · Form:                                                                         | Liquid                                                                                      |
| · Important information on protection of health and environment, and on safety. |                                                                                             |
| · Ignition temperature:                                                         | Product is not selfigniting.                                                                |
| · Explosive properties:                                                         | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · Solvent content:                                                              |                                                                                             |
| · Organic solvents:                                                             | 97.5 %                                                                                      |
| · VOC (EC)                                                                      | 97.51 %                                                                                     |
| · Solids content:                                                               | 2.6 %                                                                                       |
| · Change in condition                                                           |                                                                                             |
| · Evaporation rate                                                              | Not determined                                                                              |
| · <b>Information with regard to physical hazard classes</b>                     |                                                                                             |
| · Explosives                                                                    | Void                                                                                        |
| · Flammable gases                                                               | Void                                                                                        |
| · Aerosols                                                                      | Void                                                                                        |
| · Oxidising gases                                                               | Void                                                                                        |
| · Gases under pressure                                                          | Void                                                                                        |
| · Flammable liquids                                                             | Highly flammable liquid and vapour.                                                         |
| · Flammable solids                                                              | Void                                                                                        |
| · Self-reactive substances and mixtures                                         | Void                                                                                        |
| · Pyrophoric liquids                                                            | Void                                                                                        |
| · Pyrophoric solids                                                             | Void                                                                                        |
| · Self-heating substances and mixtures                                          | Void                                                                                        |
| · Substances and mixtures, which emit flammable gases in contact with water     | Void                                                                                        |
| · Oxidising liquids                                                             | Void                                                                                        |
| · Oxidising solids                                                              | Void                                                                                        |
| · Organic peroxides                                                             | Void                                                                                        |
| · Corrosive to metals                                                           | Void                                                                                        |
| · Desensitised explosives                                                       | Void                                                                                        |

## 10 Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

### · LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

|        |      |             |
|--------|------|-------------|
| 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 $\gamma$ -HCH or $\gamma$ -BHC

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

#### 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) |
|------|------|-------------------|

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|                                                                                            |          |                      |
|--------------------------------------------------------------------------------------------|----------|----------------------|
| Dermal                                                                                     | LD50     | 6,000 mg/kg (rat)    |
| <b>72-54-8 TDE</b>                                                                         |          |                      |
| Dermal                                                                                     | LD50     | 1,200 mg/kg (rabbit) |
| <b>72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene</b>                                |          |                      |
| Oral                                                                                       | LD50     | 880 mg/kg (rat)      |
| <b>76-44-8 heptachlor (ISO)</b>                                                            |          |                      |
| Oral                                                                                       | LD50     | 40 mg/kg (rat)       |
| Dermal                                                                                     | LD50     | 119 mg/kg (rat)      |
| <b>309-00-2 aldrin (ISO)</b>                                                               |          |                      |
| Oral                                                                                       | LD50     | 39 mg/kg (rat)       |
| Dermal                                                                                     | LD50     | 98 mg/kg (rat)       |
|                                                                                            |          | 15 mg/kg (rabbit)    |
| <b>319-84-6 alpha-BHC (alpha-HCH)</b>                                                      |          |                      |
| Oral                                                                                       | LD50     | 177 mg/kg (rat)      |
| <b>319-85-7 (1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane</b> |          |                      |
| Oral                                                                                       | LD50     | 6,000 mg/kg (rat)    |
| <b>319-86-8 delta-BHC (delta-HCH)</b>                                                      |          |                      |
| Oral                                                                                       | LD50     | 1,000 mg/kg (rat)    |
| <b>959-98-8 endosulfan I</b>                                                               |          |                      |
| Oral                                                                                       | LD50     | 76 mg/kg (rat)       |
| <b>1024-57-3 heptachlor epoxide - isomer B</b>                                             |          |                      |
| Oral                                                                                       | LD50     | 15 mg/kg (rat)       |
| <b>1031-07-8 endosulfan sulfate</b>                                                        |          |                      |
| Oral                                                                                       | LD50     | 18 mg/kg (rat)       |
| <b>1912-24-9 atrazine (ISO)</b>                                                            |          |                      |
| Oral                                                                                       | LD50     | 672 mg/kg (rat)      |
| Dermal                                                                                     | LD50     | 7,500 mg/kg (rabbit) |
| Inhalative                                                                                 | LC50/4 h | 5,200 mg/L (rat)     |
| <b>15972-60-8 alachlor (ISO)</b>                                                           |          |                      |
| Oral                                                                                       | LD50     | 930 mg/kg (rat)      |
| Dermal                                                                                     | LD50     | 3,500 mg/kg (rabbit) |
| <b>33213-65-9 endosulfan II</b>                                                            |          |                      |
| Oral                                                                                       | LD50     | 240 mg/kg (rat)      |

· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Suspected of damaging fertility. Suspected of damaging the unborn child.

· **STOT-single exposure** May cause drowsiness or dizziness.

· **STOT-repeated exposure** Causes damage to the nervous system through prolonged or repeated exposure.

· **Aspiration hazard** May be fatal if swallowed and enters airways.

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#### · 11.2 Information on other hazards

##### · Endocrine disrupting properties

None of the ingredients is listed.

## 12 Ecological information

#### · 12.1 Toxicity

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

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable

· **vPvB:** Not applicable

#### · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects

· **Remark:** Toxic for fish

#### · Additional ecological information:

##### · General notes:

Water hazard class 3 (German Regulation) (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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## 13 Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

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

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

##### · European waste catalogue

|      |                                                           |
|------|-----------------------------------------------------------|
| HP3  | Flammable                                                 |
| HP4  | Irritant - skin irritation and eye damage                 |
| HP5  | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP6  | Acute Toxicity                                            |
| HP10 | Toxic for reproduction                                    |
| HP14 | Ecotoxic                                                  |

##### · Uncleaned packaging:

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

IE

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### 14 Transport information

- 14.1 UN number or ID number
- Not Regulated, De minimus Quantities

- ADR, IMDG, IATA

-
UN1993

- 14.2 UN proper shipping name
- ADR
- IMDG, IATA

1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEXANES), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEXANES)

- 14.3 Transport hazard class(es)

- ADR, IMDG



- Class
- Label

3 Flammable liquids.
3

- IATA



- Class
- Label

3 Flammable liquids.
3

- 14.4 Packing group

- ADR, IMDG, IATA

II

- 14.5 Environmental hazards:

- Marine pollutant:
- Special marking (ADR):

Symbol (fish and tree)
Symbol (fish and tree)

- 14.6 Special precautions for user

- Hazard identification number (Kemler code):
- EMS Number:

Warning: Flammable liquids.
33

F-E,S-E

- 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

- Transport/Additional information:

- ADR
- Limited quantities (LQ)
- Excepted quantities (EQ)
- Transport category
- Tunnel restriction code

1L
Code: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

2

D/E

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|                                   |                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>IMDG</b>                     |                                                                                                                 |
| · <b>Limited quantities (LQ)</b>  | 1L                                                                                                              |
| · <b>Excepted quantities (EQ)</b> | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>   | UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, HEXANES), 3, II, ENVIRONMENTALLY HAZARDOUS                           |

## 15 Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

#### · **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

|            |                                                                   |                            |
|------------|-------------------------------------------------------------------|----------------------------|
| 50-29-3    | DDT (common name not adopted by ISO)                              | Annex I Part A<br>Annex IV |
| 58-89-9    | γ -HCH or γ -BHC                                                  | Annex I Part A<br>Annex IV |
| 60-57-1    | dieldrin (ISO)                                                    | Annex I Part A<br>Annex IV |
| 72-20-8    | endrin (ISO)                                                      | Annex I Part A<br>Annex IV |
| 76-44-8    | heptachlor (ISO)                                                  | Annex I Part A<br>Annex IV |
| 309-00-2   | aldrin (ISO)                                                      | Annex I Part A<br>Annex IV |
| 319-84-6   | alpha-BHC (alpha-HCH)                                             | Annex I Part A<br>Annex IV |
| 319-85-7   | (1alpha,2β,3alpha,4β,5alpha,6β)-1,2,3,4,5,6-hexachlorocyclohexane | Annex I Part A<br>Annex IV |
| 959-98-8   | endosulfan I                                                      | Annex I Part A<br>Annex IV |
| 33213-65-9 | endosulfan II                                                     | Annex I Part A<br>Annex IV |

#### · **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 48

#### · **Regulation (EU) No 649/2012**

|         |                                      |                                  |
|---------|--------------------------------------|----------------------------------|
| 50-29-3 | DDT (common name not adopted by ISO) | Annex I Part 3<br>Annex V Part 1 |
|---------|--------------------------------------|----------------------------------|

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|            |                                                                                           |                                  |
|------------|-------------------------------------------------------------------------------------------|----------------------------------|
| 58-89-9    | $\gamma$ -HCH or $\gamma$ -BHC                                                            | Annex I Part 3<br>Annex V Part 1 |
| 60-57-1    | dieldrin (ISO)                                                                            | Annex I Part 3<br>Annex V Part 1 |
| 72-20-8    | endrin (ISO)                                                                              | Annex V Part 1                   |
| 76-44-8    | heptachlor (ISO)                                                                          | Annex I Part 3<br>Annex V Part 1 |
| 309-00-2   | aldrin (ISO)                                                                              | Annex I Part 3<br>Annex V Part 1 |
| 319-84-6   | alpha-BHC (alpha-HCH)                                                                     | Annex V Part 1                   |
| 319-85-7   | (1alpha,2 $\beta$ ,3alpha,4 $\beta$ ,5alpha,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane | Annex V Part 1                   |
| 1912-24-9  | atrazine (ISO)                                                                            | Annex I Part 1<br>Annex I Part 2 |
| 15972-60-8 | alachlor (ISO)                                                                            | Annex I Part 1<br>Annex I Part 3 |

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

108-88-3 toluene

3

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

108-88-3 toluene

3

· **15.2 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.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H300 Fatal if swallowed.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

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- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H361f Suspected of damaging fertility.
- H362 May cause harm to breast-fed children.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

· **Date of previous version:** 28.01.2026· **Version number of previous version:** 3· **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  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)  
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  
ATE: Acute toxicity estimate values  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 2: Acute toxicity – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 1: Acute toxicity – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Lact.: Reproductive toxicity – effects on or via lactation  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· **\* Data compared to the previous version altered.**