

| Product code   | Description                                |
|----------------|--------------------------------------------|
| <b>QCK-900</b> | <b>QualityCheck Waste Water Series Kit</b> |

## Components:

|         |                                            |
|---------|--------------------------------------------|
| QCM-100 | QualityCheck Volatiles Sample (1X2 mL)     |
| QCM-200 | QualityCheck Pesticides Sample (1X2 mL)    |
| QCM-220 | QualityCheck Toxaphene Sample (1X2 mL)     |
| QCM-230 | QualityCheck Chlordane Sample (1X2 mL)     |
| QCM-240 | QualityCheck PCBs Sample (1X2 mL)          |
| QCM-300 | QualityCheck Base/Neutrals Sample (1X2 mL) |
| QCM-400 | QualityCheck acids sample (1 x 2 mL)       |

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

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

- **Product identifier**
- **Trade name:** QualityCheck Volatiles Sample (1X2 mL)
- **Part number:** QCM-100
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

- **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.



GHS06 skull and crossbones

Acute Tox. 3      H331 Toxic if inhaled.



GHS08 health hazard

Muta. 1B      H340 May cause genetic defects.

Carc. 1A      H350 May cause cancer.

STOT SE 1      H370 Causes damage to organs.

STOT RE 2      H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4      H312 Harmful in contact with skin.

Ozone 1      H420 Harms public health and the environment by destroying ozone in the upper atmosphere

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **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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**Trade name: QualityCheck Volatiles Sample (1X2 mL)**

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## · Hazard pictograms



## · Signal word Danger

## · Hazard-determining components of labelling:

methanol  
benzene  
1,1,2,2-tetrachloroethane  
1,2-dichloroethane

## · Hazard statements

H225 Highly flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H331 Toxic if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H370 Causes damage to organs.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.  
H420 Harms public health and the environment by destroying ozone in the upper atmosphere

## · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P321 Specific treatment (see on this label).  
P314 Get medical advice/attention if you feel unwell.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.

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- P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.  
P502 Refer to manufacturer/supplier for information on recovery/recycling.

**Additional information:**

Contains tetrachloroethylene, carbon tetrachloride. May produce an allergic reaction.

**Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterisation: Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

|                                    |                                                                                                                                                                                |         |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1<br>EINECS: 200-659-6  | methanol<br>Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370                                                                    | 92.592% |
| CAS: 75-35-4<br>EINECS: 200-864-0  | 1,1-dichloroethylene<br>Flam. Liq. 1, H224; Acute Tox. 3, H301; Carc. 2, H351; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319                                     | 0.379%  |
| CAS: 79-34-5<br>EINECS: 201-197-8  | 1,1,2,2-tetrachloroethane<br>Acute Tox. 3, H301; Acute Tox. 1, H310; Acute Tox. 2, H330; Aquatic Chronic 2, H411                                                               | 0.379%  |
| CAS: 79-00-5<br>EINECS: 201-166-9  | 1,1,2-trichloroethane<br>Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332                                                         | 0.379%  |
| CAS: 127-18-4<br>EINECS: 204-825-9 | tetrachloroethylene<br>Carc. 2, H351; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317                                                     | 0.379%  |
| CAS: 56-23-5<br>EINECS: 200-262-8  | carbon tetrachloride<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317; Ozone 1, H420; Aquatic Chronic 3, H412 | 0.379%  |
| CAS: 107-06-2<br>EINECS: 203-458-1 | 1,2-dichloroethane<br>Flam. Liq. 2, H225; Carc. 1B, H350; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335                                         | 0.379%  |
| CAS: 78-87-5<br>EINECS: 201-152-2  | 1,2-dichloropropane<br>Flam. Liq. 2, H225; Carc. 1B, H350; Acute Tox. 4, H302; Acute Tox. 4, H332                                                                              | 0.379%  |
| CAS: 95-50-1<br>EINECS: 202-425-9  | 1,2-dichlorobenzene<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335        | 0.303%  |
| CAS: 71-43-2<br>EINECS: 200-753-7  | benzene<br>Flam. Liq. 2, H225; Acute Tox. 1, H310; Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319                 | 0.303%  |

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|                                    |                                                                                                                                                                               |        |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CAS: 108-88-3<br>EINECS: 203-625-9 | toluene<br>⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336                                                 | 0.303% |
| CAS: 75-09-2<br>EINECS: 200-838-9  | dichloromethane<br>⚠ Carc. 2, H351; STOT RE 2, H373; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335                                                               | 0.303% |
| CAS: 106-46-7<br>EINECS: 203-400-5 | 1,4-dichlorobenzene<br>⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Eye Irrit. 2, H319                                                                | 0.303% |
| CAS: 71-55-6<br>EINECS: 200-756-3  | 1,1,1-trichloroethane<br>⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Ozone 1, H420                                                        | 0.253% |
| CAS: 67-66-3<br>EINECS: 200-663-8  | trichloromethane<br>⚠ Acute Tox. 2, H310; Acute Tox. 3, H331; ⚠ Carc. 2, H351; Repr. 2, H361d; STOT RE 1, H372; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 0.253% |
| CAS: 79-01-6<br>EINECS: 201-167-4  | trichloroethylene<br>⚠ Muta. 2, H341; Carc. 1B, H350; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336; Aquatic Chronic 3, H412                                     | 0.253% |
| CAS: 75-27-4<br>EINECS: 200-856-7  | bromodichloromethane<br>⚠ Carc. 2, H351; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335                                                       | 0.253% |
| CAS: 75-25-2<br>EINECS: 200-854-6  | bromoform<br>⚠ Acute Tox. 3, H331; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319                                                   | 0.253% |

#### SVHC

|          |                    |
|----------|--------------------|
| 107-06-2 | 1,2-dichloroethane |
| 79-01-6  | trichloroethylene  |

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

## 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.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After inhalation:

Supply fresh air or oxygen; call for 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. Then consult a doctor.

#### After swallowing:

If symptoms persist consult doctor.

#### Information for doctor:

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

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **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
- **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 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.
- **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.

### 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 fire - and explosion protection:**  
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 container tightly sealed.

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Store in cool, dry conditions in well sealed receptacles.  
 · **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

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

### 67-56-1 methanol

|     |                                                   |
|-----|---------------------------------------------------|
| WEL | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|     | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk  |                                                   |

### 75-35-4 1,1-dichloroethylene

|     |                                                |
|-----|------------------------------------------------|
| WEL | Short-term value: 20 mg/m <sup>3</sup> , 5 ppm |
|     | Long-term value: 8 mg/m <sup>3</sup> , 2 ppm   |

### 127-18-4 tetrachloroethylene

|     |                                                  |
|-----|--------------------------------------------------|
| WEL | Short-term value: 275 mg/m <sup>3</sup> , 40 ppm |
|     | Long-term value: 138 mg/m <sup>3</sup> , 20 ppm  |
| Sk  |                                                  |

### 56-23-5 carbon tetrachloride

|     |                                                |
|-----|------------------------------------------------|
| WEL | Short-term value: 32 mg/m <sup>3</sup> , 5 ppm |
|     | Long-term value: 6.4 mg/m <sup>3</sup> , 1 ppm |
| Sk  |                                                |

### 107-06-2 1,2-dichloroethane

|          |                                               |
|----------|-----------------------------------------------|
| WEL      | Long-term value: 21 mg/m <sup>3</sup> , 5 ppm |
| Carc; Sk |                                               |

### 95-50-1 1,2-dichlorobenzene

|     |                                                  |
|-----|--------------------------------------------------|
| WEL | Short-term value: 306 mg/m <sup>3</sup> , 50 ppm |
|     | Long-term value: 153 mg/m <sup>3</sup> , 25 ppm  |
| Sk  |                                                  |

### 71-43-2 benzene

|          |                                                 |
|----------|-------------------------------------------------|
| WEL      | Long-term value: 3.25 mg/m <sup>3</sup> , 1 ppm |
| Carc; Sk |                                                 |

### 108-88-3 toluene

|     |                                                   |
|-----|---------------------------------------------------|
| WEL | Short-term value: 384 mg/m <sup>3</sup> , 100 ppm |
|     | Long-term value: 191 mg/m <sup>3</sup> , 50 ppm   |
| Sk  |                                                   |

### 75-09-2 dichloromethane

|          |                                                   |
|----------|---------------------------------------------------|
| WEL      | Short-term value: 706 mg/m <sup>3</sup> , 200 ppm |
|          | Long-term value: 353 mg/m <sup>3</sup> , 100 ppm  |
| BMGV, Sk |                                                   |

### 106-46-7 1,4-dichlorobenzene

|     |                                                 |
|-----|-------------------------------------------------|
| WEL | Short-term value: 60 mg/m <sup>3</sup> , 10 ppm |
|     | Long-term value: 12 mg/m <sup>3</sup> , 2 ppm   |
| Sk  |                                                 |

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**71-55-6 1,1,1-trichloroethane**

|     |                                                                                                        |
|-----|--------------------------------------------------------------------------------------------------------|
| WEL | Short-term value: 1110 mg/m <sup>3</sup> , 200 ppm<br>Long-term value: 555 mg/m <sup>3</sup> , 100 ppm |
|-----|--------------------------------------------------------------------------------------------------------|

**67-66-3 trichloromethane**

|     |                                                |
|-----|------------------------------------------------|
| WEL | Long-term value: 9.9 mg/m <sup>3</sup> , 2 ppm |
| Sk  |                                                |

**79-01-6 trichloroethylene**

|     |                                                                                                                   |
|-----|-------------------------------------------------------------------------------------------------------------------|
| WEL | Short-term value: 820 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 550 mg/m <sup>3</sup> , 100 ppm<br>Carc; Sk |
|-----|-------------------------------------------------------------------------------------------------------------------|

**· Ingredients with biological limit values:**
**75-09-2 dichloromethane**

|      |                                                                                               |
|------|-----------------------------------------------------------------------------------------------|
| BMGV | 30 ppm<br>Medium: end-tidal breath<br>Sampling time: post shift<br>Parameter: carbon monoxide |
|------|-----------------------------------------------------------------------------------------------|

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

· **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 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.

· **Protection of hands:**

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

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 0.84204 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapour density    | Not determined.           |
| Evaporation rate  | Not determined.           |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 96.8 %

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|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 96.81 %                                    |
| <b>Solids content:</b>   | 0.3 %                                      |
| <b>Other information</b> | 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.

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity

Harmful in contact with skin.

Toxic if inhaled.

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

##### ATE (Acute Toxicity Estimates)

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | 26,364 mg/kg (rat) |
| Dermal     | LD50     | 1,169 mg/kg        |
| Inhalative | LC50/4 h | 3.13 mg/L          |

##### 67-56-1 methanol

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

##### 75-35-4 1,1-dichloroethylene

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | 200 mg/kg (rat)    |
| Inhalative | LC50/4 h | 6,350 mg/L (mouse) |

##### 79-34-5 1,1,2,2-tetrachloroethane

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 200 mg/kg (rat) |
|------|------|-----------------|

##### 79-00-5 1,1,2-trichloroethane

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 836 mg/kg (rat) |
|------|------|-----------------|

##### 127-18-4 tetrachloroethylene

|            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | 2,629 mg/kg (rat) |
| Inhalative | LC50/4 h | 4,000 mg/L (rat)  |

##### 56-23-5 carbon tetrachloride

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | 2,350 mg/kg (rat) |
| Dermal | LD50 | 5,070 mg/kg (rat) |

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**107-06-2 1,2-dichloroethane**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 670 mg/kg (rat)      |
| Dermal | LD50 | 2,800 mg/kg (rat)    |
|        |      | 2,800 mg/kg (rabbit) |

**78-87-5 1,2-dichloropropane**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 2,196 mg/kg (rat)    |
| Dermal | LD50 | 8,750 mg/kg (rabbit) |

**95-50-1 1,2-dichlorobenzene**

|        |      |                        |
|--------|------|------------------------|
| Oral   | LD50 | 500 mg/kg (rat)        |
| Dermal | LD50 | >10,000 mg/kg (rabbit) |

**71-43-2 benzene**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 3,340 mg/kg (rat)     |
| Dermal     | LD50     | 48 mg/kg (mouse)      |
|            |          | >8,260 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 9,980 mg/L (mouse)    |

**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)       |

**75-09-2 dichloromethane**

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | 1,600 mg/kg (rat)  |
| Dermal     | LD50     | >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | 88 mg/L (rat)      |

**106-46-7 1,4-dichlorobenzene**

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | >2,000 mg/kg (rat) |
| Dermal     | LD50     | >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | >5.07 mg/L (rat)   |

**71-55-6 1,1,1-trichloroethane**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | 10,300 mg/kg (rat) |
|------|------|--------------------|

**67-66-3 trichloromethane**

|        |      |                        |
|--------|------|------------------------|
| Oral   | LD50 | 908 mg/kg (rat)        |
| Dermal | LD50 | 75 mg/kg (rat)         |
|        |      | >20,000 mg/kg (rabbit) |

**79-01-6 trichloroethylene**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 2,402 mg/kg (mouse) |
|        |      | 4,290 mg/kg (rat)   |
| Dermal | LD50 | 8,450 mg/kg (mouse) |

**75-27-4 bromodichloromethane**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 450 mg/kg (mouse) |
|------|------|-------------------|

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**75-25-2 bromoform**

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 933 mg/kg (rat) |
|------|------|-----------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
May cause genetic defects.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Harmful to 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.  
Harmful to aquatic organisms
- **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 together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

|      |                                                           |
|------|-----------------------------------------------------------|
| HP 3 | Flammable                                                 |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity                                            |

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|       |              |
|-------|--------------|
| HP 7  | Carcinogenic |
| HP 11 | Mutagenic    |
| HP 14 | Ecotoxic     |

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

### 14 Transport information

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| · <b>UN-Number</b>                                                                  | UN1230                                                                              |
| · <b>ADR, IMDG, IATA</b>                                                            |                                                                                     |
| · <b>UN proper shipping name</b>                                                    | 1230 METHANOL solution                                                              |
| · <b>ADR</b>                                                                        | METHANOL solution                                                                   |
| · <b>IMDG, IATA</b>                                                                 |                                                                                     |
| · <b>Transport hazard class(es)</b>                                                 |                                                                                     |
| · <b>ADR</b>                                                                        |                                                                                     |
|   |   |
| · <b>Class</b>                                                                      | 3 Flammable liquids.                                                                |
| · <b>Label</b>                                                                      | 3+6.1                                                                               |
| · <b>IMDG</b>                                                                       |                                                                                     |
|  |  |
| · <b>Class</b>                                                                      | 3 Flammable liquids.                                                                |
| · <b>Label</b>                                                                      | 3/6.1                                                                               |
| · <b>IATA</b>                                                                       |                                                                                     |
|  |  |
| · <b>Class</b>                                                                      | 3 Flammable liquids.                                                                |
| · <b>Label</b>                                                                      | 3 (6.1)                                                                             |
| · <b>Packing group</b>                                                              |                                                                                     |
| · <b>ADR, IMDG, IATA</b>                                                            | II                                                                                  |
| · <b>Environmental hazards:</b>                                                     | Not applicable.                                                                     |
| · <b>Special precautions for user</b>                                               | Warning: Flammable liquids.                                                         |
| · <b>Danger code (Kemler):</b>                                                      | 336                                                                                 |
| · <b>EMS Number:</b>                                                                | F-E,S-D                                                                             |
| · <b>Stowage Category</b>                                                           | B                                                                                   |

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|                                                                             |                                                                                                                 |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Stowage Code</b>                                                       | SW2 Clear of living quarters.                                                                                   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                  |                                                                                                                 |
| · <b>ADR</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>Transport category</b>                                                 | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                            | D/E                                                                                                             |
| · <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 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

## 15 Regulatory information

· **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**

H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

|          |                    |                         |
|----------|--------------------|-------------------------|
| 107-06-2 | 1,2-dichloroethane | Sunset date: 2017-11-22 |
| 79-01-6  | trichloroethylene  | Sunset date: 2016-04-21 |

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 5, 28, 29, 35, 64, 69, 72

· **Regulation (EU) No 649/2012**

|          |                           |                                  |
|----------|---------------------------|----------------------------------|
| 75-35-4  | 1,1-dichloroethylene      | Annex I Part 1                   |
| 79-34-5  | 1,1,2,2-tetrachloroethane | Annex I Part 1                   |
| 79-00-5  | 1,1,2-trichloroethane     | Annex I Part 1                   |
| 56-23-5  | carbon tetrachloride      | Annex I Part 1                   |
| 107-06-2 | 1,2-dichloroethane        | Annex I Part 1<br>Annex I Part 3 |
| 71-43-2  | benzene                   | Annex I Part 1                   |
| 71-55-6  | 1,1,1-trichloroethane     | Annex I Part 1                   |
| 67-66-3  | trichloromethane          | Annex I Part 1                   |

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· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**

Carcinogenic hazardous material group III (dangerous).

· **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.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

|          |                    |
|----------|--------------------|
| 107-06-2 | 1,2-dichloroethane |
| 79-01-6  | trichloroethylene  |

· **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**

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.

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.

H412 Harmful to aquatic life with long lasting effects.

H420 Harms public health and the environment by destroying ozone in the upper atmosphere

· **Department issuing SDS:** Document Control / Regulatory

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· **Contact:** regulatory@ultrasci.com· **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

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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 1: Flammable liquids – Category 1

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1A: Carcinogenicity – Category 1A

Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Ozone 1: Hazardous to the ozone layer – Category 1

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

# Safety data sheet

## according to 1907/2006/EC, Article 31

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

- **Product identifier**
- **Trade name:** QualityCheck Pesticides Sample (1X2 mL)
- **Part number:** QCM-200
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

- **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.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methanol

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**· Hazard statements**

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H370 Causes damage to organs.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P531 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

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.

**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

**· Dangerous components:**

|                   |                                                                                                                                                                                                                                                                                                                                                             |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1      | methanol                                                                                                                                                                                                                                                                                                                                                    | 99.965% |
| EINECS: 200-659-6 |  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370 |         |

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

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:**

Supply fresh air or oxygen; call for 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. Then consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for 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 Firefighting measures

- **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

- **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.

### 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 fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

|                                                                                  |                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------|
| · <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                   |
| <b>67-56-1 methanol</b>                                                          |                                                   |
| WEL                                                                              | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|                                                                                  | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk                                                                               |                                                   |

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

- **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.
- **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.
- **Protection of hands:**
  - 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

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                       |
|-------------------|-----------------------|
| Density at 20 °C: | 0.8 g/cm <sup>3</sup> |
| Relative density  | Not determined.       |
| Vapour density    | Not determined.       |
| Evaporation rate  | Not determined.       |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 100.0 %

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|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 99.97 %                                    |
| <b>Solids content:</b>   | 0.0 %                                      |
| <b>Other information</b> | 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.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**  
Toxic if inhaled.

- **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

|            |          |        |
|------------|----------|--------|
| Inhalative | LC50/4 h | 3 mg/L |
|------------|----------|--------|

#### 67-56-1 methanol

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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**Trade name: QualityCheck Pesticides Sample (1X2 mL)**

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.

| · <b>European waste catalogue</b> |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| HP 3                              | Flammable                                                 |
| HP 5                              | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6                              | Acute Toxicity                                            |

|      |                                                           |
|------|-----------------------------------------------------------|
| HP 3 | Flammable                                                 |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity                                            |

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

### 14 Transport information

- |                                  |                        |
|----------------------------------|------------------------|
| · <b>UN-Number</b>               | UN1230                 |
| · <b>ADR, IMDG, IATA</b>         |                        |
| · <b>UN proper shipping name</b> | 1230 METHANOL solution |
| · <b>ADR</b>                     | METHANOL solution      |
| · <b>IMDG</b>                    | METHANOL mixture       |
| · <b>IATA</b>                    |                        |

|                                                                                                                                                                                                                                             |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| · <b>Transport hazard class(es)</b>                                                                                                                                                                                                         |                      |
| · <b>ADR</b>                                                                                                                                                                                                                                |                      |
| <div style="display: flex; align-items: center; gap: 10px;">   </div> |                      |
| · <b>Class</b>                                                                                                                                                                                                                              | 3 Flammable liquids. |
| · <b>Label</b>                                                                                                                                                                                                                              | 3+6.1                |
| · <b>IMDG</b>                                                                                                                                                                                                                               |                      |
| <div style="display: flex; align-items: center; gap: 10px;">   </div> |                      |
| · <b>Class</b>                                                                                                                                                                                                                              | 3 Flammable liquids. |









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|                                                                                                                                                                     |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                                                                                                      | 3/6.1                                                                                                           |
| · <b>IATA</b>                                                                                                                                                       |                                                                                                                 |
|   |                                                                                                                 |
| · <b>Class</b>                                                                                                                                                      | 3 Flammable liquids.                                                                                            |
| · <b>Label</b>                                                                                                                                                      | 3 (6.1)                                                                                                         |
| · <b>Packing group</b>                                                                                                                                              |                                                                                                                 |
| · <b>ADR, IMDG, IATA</b>                                                                                                                                            | II                                                                                                              |
| · <b>Environmental hazards:</b>                                                                                                                                     | Not applicable.                                                                                                 |
| · <b>Special precautions for user</b>                                                                                                                               | Warning: Flammable liquids.                                                                                     |
| · <b>Danger code (Kemler):</b>                                                                                                                                      | 336                                                                                                             |
| · <b>EMS Number:</b>                                                                                                                                                | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                                                                                                           | B                                                                                                               |
| · <b>Stowage Code</b>                                                                                                                                               | SW2 Clear of living quarters.                                                                                   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                                                                         | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                                                                                                          |                                                                                                                 |
| · <b>ADR</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>Transport category</b>                                                                                                                                         | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                                                                                                    | D/E                                                                                                             |
| · <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 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

### 15 Regulatory information

- 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  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69

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· **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **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

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

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

- **Product identifier**
- **Trade name:** QualityCheck Toxaphene Sample (1X2 mL)
- **Part number:** QCM-220
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

- **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.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methanol

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## Safety data sheet

### according to 1907/2006/EC, Article 31

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**Trade name: QualityCheck Toxaphene Sample (1X2 mL)**

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**· Hazard statements**

H225 Highly flammable liquid and vapour.  
H331 Toxic if inhaled.  
H370 Causes damage to organs.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
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.

**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

**· Dangerous components:**

|                   |                                                                                                                                                                                                                                                                                                                                                             |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1      | methanol                                                                                                                                                                                                                                                                                                                                                    | 99.998% |
| EINECS: 200-659-6 |  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370 |         |

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

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.

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(Contd. of page 2)

In case of irregular breathing or respiratory arrest provide artificial respiration.

**· After inhalation:**

Supply fresh air or oxygen; call for 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. Then consult a doctor.

**· After swallowing:** If symptoms persist consult doctor.

**· Information for 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 Firefighting measures

**· 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**· 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.

### 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 fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

|                                                                                  |                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------|
| · <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                   |
| <b>67-56-1 methanol</b>                                                          |                                                   |
| WEL                                                                              | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|                                                                                  | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk                                                                               |                                                   |

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

- **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.
- **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.
- **Protection of hands:**
  - 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

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**Trade name: QualityCheck Toxaphene Sample (1X2 mL)**

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 0.80002 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapour density    | Not determined.           |
| Evaporation rate  | Not determined.           |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 100.0 %

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|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 100.00 %                                   |
| <b>Solids content:</b>   | 0.0 %                                      |
| <b>Other information</b> | 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.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**  
Toxic if inhaled.

- **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

|            |          |        |
|------------|----------|--------|
| Inhalative | LC50/4 h | 3 mg/L |
|------------|----------|--------|

#### 67-56-1 methanol

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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**Trade name: QualityCheck Toxaphene Sample (1X2 mL)**

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

|      |                                                           |
|------|-----------------------------------------------------------|
| HP 3 | Flammable                                                 |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity                                            |

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

### 14 Transport information

- |                                                                                                                                                        |                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                                 | UN1230                                                          |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 1230 METHANOL solution<br>METHANOL solution<br>METHANOL mixture |

#### · Transport hazard class(es)

##### · ADR



- |                                                                                          |                               |
|------------------------------------------------------------------------------------------|-------------------------------|
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | 3 Flammable liquids.<br>3+6.1 |
|------------------------------------------------------------------------------------------|-------------------------------|

#### · IMDG



- |                                                                  |                      |
|------------------------------------------------------------------|----------------------|
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul> | 3 Flammable liquids. |
|------------------------------------------------------------------|----------------------|

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|                                                                                                                                                                     |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                                                                                                      | 3/6.1                                                                                                           |
| · <b>IATA</b>                                                                                                                                                       |                                                                                                                 |
|   |                                                                                                                 |
| · <b>Class</b>                                                                                                                                                      | 3 Flammable liquids.                                                                                            |
| · <b>Label</b>                                                                                                                                                      | 3 (6.1)                                                                                                         |
| · <b>Packing group</b>                                                                                                                                              |                                                                                                                 |
| · <b>ADR, IMDG, IATA</b>                                                                                                                                            | II                                                                                                              |
| · <b>Environmental hazards:</b>                                                                                                                                     | Not applicable.                                                                                                 |
| · <b>Special precautions for user</b>                                                                                                                               | Warning: Flammable liquids.                                                                                     |
| · <b>Danger code (Kemler):</b>                                                                                                                                      | 336                                                                                                             |
| · <b>EMS Number:</b>                                                                                                                                                | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                                                                                                           | B                                                                                                               |
| · <b>Stowage Code</b>                                                                                                                                               | SW2 Clear of living quarters.                                                                                   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                                                                         | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                                                                                                          |                                                                                                                 |
| · <b>ADR</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>Transport category</b>                                                                                                                                         | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                                                                                                    | D/E                                                                                                             |
| · <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 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

### 15 Regulatory information

- 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  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Toxaphene Sample (1X2 mL)**

(Contd. of page 8)

· **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **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

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

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

- **Product identifier**
- **Trade name:** QualityCheck Chlordane Sample (1X2 mL)
- **Part number:** QCM-230
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

## 2 Hazards identification

- **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.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methanol

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 1)

**· Hazard statements**

H225 Highly flammable liquid and vapour.  
H331 Toxic if inhaled.  
H370 Causes damage to organs.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P533 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
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.

**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

**· Dangerous components:**

|                   |                                                                                                                                                                                                                                                                                                                                                             |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1      | methanol                                                                                                                                                                                                                                                                                                                                                    | 99.998% |
| EINECS: 200-659-6 |  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370 |         |

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

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 2)

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for 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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for 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 Firefighting measures

· **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

· **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.

### 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 fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 3)

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

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

|                                                                                  |                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------|
| · <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                   |
| <b>67-56-1 methanol</b>                                                          |                                                   |
| WEL                                                                              | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|                                                                                  | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk                                                                               |                                                   |

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

- **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.

- **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.

- **Protection of hands:**

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

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 4)

· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 0.80002 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapour density    | Not determined.           |
| Evaporation rate  | Not determined.           |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 100.0 %

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 5)

|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 100.00 %                                   |
| <b>Solids content:</b>   | 0.0 %                                      |
| <b>Other information</b> | 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.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**  
Toxic if inhaled.

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

##### **ATE (Acute Toxicity Estimates)**

|            |          |        |
|------------|----------|--------|
| Inhalative | LC50/4 h | 3 mg/L |
|------------|----------|--------|

##### **67-56-1 methanol**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 6)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.

| · <b>European waste catalogue</b> |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| HP 3                              | Flammable                                                 |
| HP 5                              | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6                              | Acute Toxicity                                            |



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

### 14 Transport information

- |                                  |                        |
|----------------------------------|------------------------|
| · <b>UN-Number</b>               | UN1230                 |
| · <b>ADR, IMDG, IATA</b>         |                        |
| · <b>UN proper shipping name</b> | 1230 METHANOL solution |
| · <b>ADR</b>                     | METHANOL solution      |
| · <b>IMDG</b>                    | METHANOL mixture       |
| · <b>IATA</b>                    |                        |

|                                                                                                                                                                                                                                                                 |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| · <b>Transport hazard class(es)</b>                                                                                                                                                                                                                             |                      |
| · <b>ADR</b>                                                                                                                                                                                                                                                    |                      |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                      |
| · <b>Class</b>                                                                                                                                                                                                                                                  | 3 Flammable liquids. |
| · <b>Label</b>                                                                                                                                                                                                                                                  | 3+6.1                |
| · <b>IMDG</b>                                                                                                                                                                                                                                                   |                      |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                      |
| · <b>Class</b>                                                                                                                                                                                                                                                  | 3 Flammable liquids. |









(Contd. on page 8)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 7)

|                                                                                                                                                                     |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                                                                                                      | 3/6.1                                                                                                           |
| · <b>IATA</b>                                                                                                                                                       |                                                                                                                 |
|   |                                                                                                                 |
| · <b>Class</b>                                                                                                                                                      | 3 Flammable liquids.                                                                                            |
| · <b>Label</b>                                                                                                                                                      | 3 (6.1)                                                                                                         |
| · <b>Packing group</b>                                                                                                                                              |                                                                                                                 |
| · <b>ADR, IMDG, IATA</b>                                                                                                                                            | II                                                                                                              |
| · <b>Environmental hazards:</b>                                                                                                                                     | Not applicable.                                                                                                 |
| · <b>Special precautions for user</b>                                                                                                                               | Warning: Flammable liquids.                                                                                     |
| · <b>Danger code (Kemler):</b>                                                                                                                                      | 336                                                                                                             |
| · <b>EMS Number:</b>                                                                                                                                                | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                                                                                                           | B                                                                                                               |
| · <b>Stowage Code</b>                                                                                                                                               | SW2 Clear of living quarters.                                                                                   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                                                                         | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                                                                                                          |                                                                                                                 |
| · <b>ADR</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>Transport category</b>                                                                                                                                         | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                                                                                                    | D/E                                                                                                             |
| · <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 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

### 15 Regulatory information

- 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  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69

(Contd. on page 9)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck Chlordane Sample (1X2 mL)**

(Contd. of page 8)

· **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

· **Department issuing SDS:** Document Control / Regulatory

· **Contact:** regulatory@ultrasci.com

· **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

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

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

- **Product identifier**
- **Trade name:** QualityCheck PCBs Sample (1X2 mL)
- **Part number:** QCM-240
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

- **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.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methanol

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 29.04.2019

**Trade name: QualityCheck PCBs Sample (1X2 mL)**

(Contd. of page 1)

**· Hazard statements**

H225 Highly flammable liquid and vapour.  
H331 Toxic if inhaled.  
H370 Causes damage to organs.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P533 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
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.

**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

**· Dangerous components:**

|                   |                                                                                                                                                                                                                                                                                                                                                             |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1      | methanol                                                                                                                                                                                                                                                                                                                                                    | 99.991% |
| EINECS: 200-659-6 |  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370 |         |

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

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for 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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for 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 Firefighting measures

· **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

· **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.

### 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 fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

|                                                                                  |                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------|
| · <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                   |
| <b>67-56-1 methanol</b>                                                          |                                                   |
| WEL                                                                              | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|                                                                                  | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk                                                                               |                                                   |

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

- **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.
- **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.
- **Protection of hands:**
  - 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

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                       |
|-------------------|-----------------------|
| Density at 20 °C: | 0.8 g/cm <sup>3</sup> |
| Relative density  | Not determined.       |
| Vapour density    | Not determined.       |
| Evaporation rate  | Not determined.       |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 100.0 %

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|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 99.99 %                                    |
| <b>Solids content:</b>   | 0.0 %                                      |
| <b>Other information</b> | 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**  
Toxic if inhaled.

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

#### **ATE (Acute Toxicity Estimates)**

|            |          |        |
|------------|----------|--------|
| Inhalative | LC50/4 h | 3 mg/L |
|------------|----------|--------|

#### **67-56-1 methanol**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

|      |                                                           |
|------|-----------------------------------------------------------|
| HP 3 | Flammable                                                 |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity                                            |

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

### 14 Transport information

- |                                  |                        |
|----------------------------------|------------------------|
| · <b>UN-Number</b>               | UN1230                 |
| · <b>ADR, IMDG, IATA</b>         |                        |
| · <b>UN proper shipping name</b> | 1230 METHANOL solution |
| · <b>ADR</b>                     | METHANOL solution      |
| · <b>IMDG, IATA</b>              |                        |

#### · Transport hazard class(es)

##### · ADR



- |                |                      |
|----------------|----------------------|
| · <b>Class</b> | 3 Flammable liquids. |
| · <b>Label</b> | 3+6.1                |

##### · IMDG



- |                |                      |
|----------------|----------------------|
| · <b>Class</b> | 3 Flammable liquids. |
|----------------|----------------------|

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|                                                                                                                                                                     |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                                                                                                      | 3/6.1                                                                                                           |
| · <b>IATA</b>                                                                                                                                                       |                                                                                                                 |
|   |                                                                                                                 |
| · <b>Class</b>                                                                                                                                                      | 3 Flammable liquids.                                                                                            |
| · <b>Label</b>                                                                                                                                                      | 3 (6.1)                                                                                                         |
| · <b>Packing group</b>                                                                                                                                              |                                                                                                                 |
| · <b>ADR, IMDG, IATA</b>                                                                                                                                            | II                                                                                                              |
| · <b>Environmental hazards:</b>                                                                                                                                     | Not applicable.                                                                                                 |
| · <b>Special precautions for user</b>                                                                                                                               | Warning: Flammable liquids.                                                                                     |
| · <b>Danger code (Kemler):</b>                                                                                                                                      | 336                                                                                                             |
| · <b>EMS Number:</b>                                                                                                                                                | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                                                                                                           | B                                                                                                               |
| · <b>Stowage Code</b>                                                                                                                                               | SW2 Clear of living quarters.                                                                                   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                                                                         | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                                                                                                          |                                                                                                                 |
| · <b>ADR</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>Transport category</b>                                                                                                                                         | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                                                                                                    | D/E                                                                                                             |
| · <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 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

### 15 Regulatory information

- 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  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69

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· **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **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

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

GB

## Safety data sheet

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

- **Product identifier**
- **Trade name:** QualityCheck Base/Neutrals Sample (1X2 mL)
- **Part number:** QCM-300
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

- **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

Carc. 1B      H350 May cause cancer.



GHS09 environment

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



GHS07

Eye Irrit. 2      H319 Causes serious eye irritation.

STOT SE 3      H336 May cause drowsiness or dizziness.

- **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:**

acetone  
dibenz[a,h]anthracene  
benzo[a]pyrene

**· Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H350 May cause cancer.  
H336 May cause drowsiness or dizziness.  
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 label before use.                                                                                                           |
| P201           | Obtain special instructions before use.                                                                                          |
| P202           | Do not handle until all safety precautions have been read and understood.                                                        |
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P240           | Ground/bond container and receiving equipment.                                                                                   |
| P241           | Use explosion-proof electrical/ventilating/lighting equipment.                                                                   |
| P242           | Use only non-sparking tools.                                                                                                     |
| P243           | Take precautionary measures against static discharge.                                                                            |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.                                                                                |
| P264           | Wash thoroughly after handling.                                                                                                  |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P273           | Avoid release to the environment.                                                                                                |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P312           | Call a POISON CENTER/doctor if you feel unwell.                                                                                  |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P370+P378      | In case of fire: Use for extinction: CO <sub>2</sub> , powder or water spray.                                                    |
| P391           | Collect spillage.                                                                                                                |
| 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.                              |

**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

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· **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

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

· **Dangerous components:**

|                                   |                                                                                                                                        |         |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 67-64-1<br>EINECS: 200-662-2 | acetone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336                                                                     | 99.342% |
| CAS: 53-70-3<br>EINECS: 200-181-8 | dibenz[a,h]anthracene<br>Carc. 1B, H350; Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                                | 0.0253% |
| CAS: 50-32-8<br>EINECS: 200-028-5 | benzo[a]pyrene<br>Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | 0.0253% |
| CAS: 56-55-3<br>EINECS: 200-280-6 | benz[a]anthracene<br>Carc. 1B, H350; Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                                    | 0.0253% |

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

### 4 First aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for 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 Firefighting measures

· **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

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

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- **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.
- **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.

## 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 fire - and explosion protection:**  
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 container 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

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

#### 67-64-1 acetone

|     |                                                     |
|-----|-----------------------------------------------------|
| WEL | Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm |
|     | Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm   |

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

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Store protective clothing separately.

Avoid contact with the eyes.

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.

**· Protection of hands:**

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 protection:**


Tightly sealed goggles

## 9 Physical and chemical properties

**· Information on basic physical and chemical properties**
**· General Information**
**· Appearance:**

**Form:** Fluid

**Colour:** Colourless

**· Odour:** Characteristic

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/freezing point:** -94.7 °C

**Initial boiling point and boiling range:** 55.8-56.6 °C

**· Flash point:** -17 °C

**· Flammability (solid, gas):** Not applicable.

**· Ignition temperature:** 465 °C

**· Decomposition temperature:** Not determined.

**· Auto-ignition temperature:** Product is not selfigniting.

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## Safety data sheet

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|                                                  |                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Explosive properties:</b>                   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                       |                                                                                             |
| <b>Lower:</b>                                    | 2.6 Vol %                                                                                   |
| <b>Upper:</b>                                    | 13 Vol %                                                                                    |
| · <b>Vapour pressure at 20 °C:</b>               | 245.3 hPa                                                                                   |
| · <b>Density at 20 °C:</b>                       | 0.791 g/cm <sup>3</sup>                                                                     |
| · <b>Relative density</b>                        | Not determined.                                                                             |
| · <b>Vapour density</b>                          | Not determined.                                                                             |
| · <b>Evaporation rate</b>                        | Not determined.                                                                             |
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.                                                           |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                                                                             |
| · <b>Viscosity:</b>                              |                                                                                             |
| <b>Dynamic at 20 °C:</b>                         | 32 mPas                                                                                     |
| <b>Kinematic:</b>                                | Not determined.                                                                             |
| · <b>Solvent content:</b>                        |                                                                                             |
| <b>Organic solvents:</b>                         | 99.4 %                                                                                      |
| <b>VOC (EC)</b>                                  | 99.39 %                                                                                     |
| <b>Solids content:</b>                           | 0.4 %                                                                                       |
| · <b>Other information</b>                       | 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### 67-64-1 acetone

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,800 mg/kg (rat)     |
| Dermal | LD50 | 20,000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.

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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxical 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
- **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 together with household garbage. Do not allow product to reach sewage system.

### · **European waste catalogue**

|       |                                                           |
|-------|-----------------------------------------------------------|
| HP 3  | Flammable                                                 |
| HP 4  | Irritant - skin irritation and eye damage                 |
| HP 5  | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 14 | Ecotoxic                                                  |

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

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### 14 Transport information

|                                                                                    |                                                                                                                 |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · UN-Number                                                                        | UN1090                                                                                                          |
| · ADR, IMDG, IATA                                                                  |                                                                                                                 |
| · UN proper shipping name                                                          | 1090 ACETONE solution, ENVIRONMENTALLY HAZARDOUS                                                                |
| · ADR                                                                              | HAZARDOUS                                                                                                       |
| · IMDG                                                                             | ACETONE solution, MARINE POLLUTANT                                                                              |
| · IATA                                                                             | ACETONE solution                                                                                                |
| · Transport hazard class(es)                                                       |                                                                                                                 |
| · ADR, IMDG                                                                        |                                                                                                                 |
|   |                                                                                                                 |
| · Class                                                                            | 3 Flammable liquids.                                                                                            |
| · Label                                                                            | 3                                                                                                               |
| · IATA                                                                             |                                                                                                                 |
|  |                                                                                                                 |
| · Class                                                                            | 3 Flammable liquids.                                                                                            |
| · Label                                                                            | 3                                                                                                               |
| · Packing group                                                                    | II                                                                                                              |
| · ADR, IMDG, IATA                                                                  |                                                                                                                 |
| · Environmental hazards:                                                           | Product contains environmentally hazardous substances: 1,2-dichlorobenzene, dibenz[a,h]anthracene               |
| · Marine pollutant:                                                                | Symbol (fish and tree)                                                                                          |
| · Special marking (ADR):                                                           | Symbol (fish and tree)                                                                                          |
| · Special precautions for user                                                     | Warning: Flammable liquids.                                                                                     |
| · Danger code (Kemler):                                                            | 33                                                                                                              |
| · EMS Number:                                                                      | F-E,S-D                                                                                                         |
| · Stowage Category                                                                 | B                                                                                                               |
| · Transport in bulk according to Annex II of Marpol and the IBC Code               | Not applicable.                                                                                                 |
| · Transport/Additional information:                                                |                                                                                                                 |
| · ADR                                                                              |                                                                                                                 |
| · Limited quantities (LQ)                                                          | 1L                                                                                                              |
| · Excepted quantities (EQ)                                                         | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · Transport category                                                               | 2                                                                                                               |
| · Tunnel restriction code                                                          | D/E                                                                                                             |

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- |                                                                                                                                                      |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>                                                                    | <p>UN 1090 ACETONE SOLUTION, 3, II,<br/>ENVIRONMENTALLY HAZARDOUS</p>                                                           |

### 15 Regulatory information

- **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 (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 50a, 50c, 50h, 72
- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).
- **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.

- **Relevant phrases**  
H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H360FD May damage fertility. May damage the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** Document Control / Regulatory
- **Contact:** regulatory@ultrasci.com
- **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

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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  
Flam. Liq. 2: Flammable liquids – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 1B: Germ cell mutagenicity – Category 1B  
Carc. 1B: Carcinogenicity – Category 1B  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
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

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

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## Safety data sheet

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

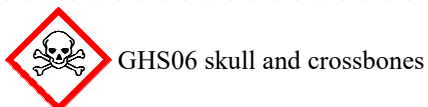
- **Product identifier**
- **Trade name:** QualityCheck acids sample (1 x 2 mL)
- **Part number:** QCM-400
- **Relevant identified uses of the substance or mixture and uses advised against**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str.8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(44)-870-8200418

### 2 Hazards identification

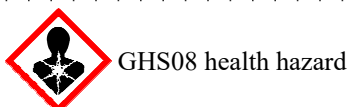
- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



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



Acute Tox. 3 H331 Toxic if inhaled.



STOT SE 1 H370 Causes damage to organs.

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



- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methanol

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**Trade name: QualityCheck acids sample (1 x 2 mL)**

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**· Hazard statements**

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H370 Causes damage to organs.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P533 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

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.

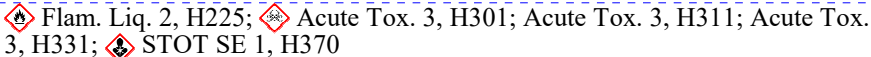
**· Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

**· Dangerous components:**

|                   |                                                                                      |         |
|-------------------|--------------------------------------------------------------------------------------|---------|
| CAS: 67-56-1      | methanol                                                                             | 99.747% |
| EINECS: 200-659-6 |  |         |

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

### 4 First aid measures

**· Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for 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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for 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 Firefighting measures

· **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

· **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.

### 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 fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

|                                                                                  |                                                   |
|----------------------------------------------------------------------------------|---------------------------------------------------|
| · <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                   |
| <b>67-56-1 methanol</b>                                                          |                                                   |
| WEL                                                                              | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|                                                                                  | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
| Sk                                                                               |                                                   |

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

- **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.

- **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.

- **Protection of hands:**

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

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**Trade name: QualityCheck acids sample (1 x 2 mL)**

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Fluid           |
| Colour:          | Colourless      |
| Odour:           | Alcohol-like    |
| Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|                                          |         |
|------------------------------------------|---------|
| Melting point/freezing point:            | -98 °C  |
| Initial boiling point and boiling range: | 64.7 °C |

· Flash point: 9 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 455 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|        |           |
|--------|-----------|
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol %  |

· Vapour pressure at 20 °C: 100 hPa

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 0.80135 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapour density    | Not determined.           |
| Evaporation rate  | Not determined.           |

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 99.8 %

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**Trade name: QualityCheck acids sample (1 x 2 mL)**

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|                          |                                            |
|--------------------------|--------------------------------------------|
| <b>VOC (EC)</b>          | 99.80 %                                    |
| <b>Solids content:</b>   | 0.2 %                                      |
| <b>Other information</b> | 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**  
Toxic if inhaled.

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

#### **ATE (Acute Toxicity Estimates)**

|            |          |           |
|------------|----------|-----------|
| Inhalative | LC50/4 h | 3.01 mg/L |
|------------|----------|-----------|

#### **67-56-1 methanol**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,628 mg/kg (rat)     |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Causes damage to organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 7)

## Safety data sheet

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**Trade name: QualityCheck acids sample (1 x 2 mL)**

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

|      |                                                           |
|------|-----------------------------------------------------------|
| HP 3 | Flammable                                                 |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity                                            |

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

### 14 Transport information

- |                                  |                        |
|----------------------------------|------------------------|
| · <b>UN-Number</b>               | UN1230                 |
| · <b>ADR, IMDG, IATA</b>         |                        |
| · <b>UN proper shipping name</b> | 1230 METHANOL solution |
| · <b>ADR</b>                     | METHANOL solution      |
| · <b>IMDG, IATA</b>              |                        |

#### · Transport hazard class(es)

##### · ADR



- |                |                      |
|----------------|----------------------|
| · <b>Class</b> | 3 Flammable liquids. |
| · <b>Label</b> | 3+6.1                |

##### · IMDG



- |                |                      |
|----------------|----------------------|
| · <b>Class</b> | 3 Flammable liquids. |
|----------------|----------------------|

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2019

Version number 3

Revision: 28.05.2019

**Trade name: QualityCheck acids sample (1 x 2 mL)**

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|                                                                                                                                                                     |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · Label                                                                                                                                                             | 3/6.1                                                                                                           |
| · IATA                                                                                                                                                              |                                                                                                                 |
|   |                                                                                                                 |
| · Class                                                                                                                                                             | 3 Flammable liquids.                                                                                            |
| · Label                                                                                                                                                             | 3 (6.1)                                                                                                         |
| · Packing group                                                                                                                                                     |                                                                                                                 |
| · ADR, IMDG, IATA                                                                                                                                                   | II                                                                                                              |
| · Environmental hazards:                                                                                                                                            | Not applicable.                                                                                                 |
| · Special precautions for user                                                                                                                                      | Warning: Flammable liquids.                                                                                     |
| · Danger code (Kemler):                                                                                                                                             | 336                                                                                                             |
| · EMS Number:                                                                                                                                                       | F-E,S-D                                                                                                         |
| · Stowage Category                                                                                                                                                  | B                                                                                                               |
| · Stowage Code                                                                                                                                                      | SW2 Clear of living quarters.                                                                                   |
| · Transport in bulk according to Annex II of Marpol and the IBC Code                                                                                                | Not applicable.                                                                                                 |
| · Transport/Additional information:                                                                                                                                 |                                                                                                                 |
| · ADR                                                                                                                                                               |                                                                                                                 |
| · Limited quantities (LQ)                                                                                                                                           | 1L                                                                                                              |
| · Excepted quantities (EQ)                                                                                                                                          | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · Transport category                                                                                                                                                | 2                                                                                                               |
| · Tunnel restriction code                                                                                                                                           | D/E                                                                                                             |
| · IMDG                                                                                                                                                              |                                                                                                                 |
| · Limited quantities (LQ)                                                                                                                                           | 1L                                                                                                              |
| · Excepted quantities (EQ)                                                                                                                                          | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation":                                                                                                                                            | UN 1230 METHANOL SOLUTION, 3 (6.1), II                                                                          |

### 15 Regulatory information

- 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  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69

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## Safety data sheet

according to 1907/2006/EC, Article 31

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**Trade name: QualityCheck acids sample (1 x 2 mL)**

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· **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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **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

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

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