

Product code	Description
QCK-915	QualityCheck Organic WS Drinking Water Kit
Components:	
QCM-115	QualityCheck WS Regulated VOCs Sample (1X2 mL)
QCM-116	QualityCheck WS Unregulated VOCs Sample (1X2 mL)
QCM-125	QualityCheck Trihalomethanes Sample (1X1 mL)
QCM-135	QualityCheck check EDB / DBCP Sample (1 x 2 mL)
QCM-211	QualityCheck WS Pesticides no. 1 sample (1X2 mL)
QCM-212	QualityCheck WS Pesticides no. 2 sample (1X2 mL)
QCM-220	QualityCheck Toxaphene Sample (1X2 mL)
QCM-230	QualityCheck Chlordane Sample (1X2 mL)
QCM-249	QualityCheck PCB Screening Sample (1X2 mL)
QCM-251	QualityCheck WS Carbamates Sample (1X2 mL)
QCM-311	QualityCheck WS PAH Sample (1X2 mL)
QCM-312	QualityCheck WS Phthalate and Adipate Sample (1X2 mL)
QCM-501	QualityCheck WS Herbicides Sample (1X2 mL)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

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1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Regulated VOCs Sample (1X2 mL)
- **Part number:** QCM-115
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *1
 Fire = 3
 Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.697%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
1330-20-7	xylene	130 ppm
75-01-4	vinyl chloride	250 ppm
156-60-5	trans-dichloroethylene	280 ppm
156-59-2	cis-dichloroethylene	140 ppm
75-35-4	1,1-dichloroethylene	45 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
79-00-5	1,1,2-trichloroethane	30 ppm

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 3)

95-50-1	1,2-dichlorobenzene	50 ppm
127-18-4	tetrachloroethylene	35 ppm
71-43-2	benzene	52 ppm
108-88-3	toluene	67 ppm
100-41-4	ethylbenzene	33 ppm
100-42-5	styrene	20 ppm
75-09-2	dichloromethane	200 ppm
56-23-5	carbon tetrachloride	1.2 ppm
107-06-2	1,2-dichloroethane	50 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
78-87-5	1,2-dichloropropane	30 ppm
79-01-6	trichloroethylene	130 ppm
108-90-7	chlorobenzene	10 ppm
106-46-7	1,4-dichlorobenzene	30 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
1330-20-7	xylene	920* ppm
75-01-4	vinyl chloride	1,200 ppm
156-60-5	trans-dichloroethylene	1,000 ppm
156-59-2	cis-dichloroethylene	500 ppm
75-35-4	1,1-dichloroethylene	500 ppm
120-82-1	1,2,4-trichlorobenzene	5 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
127-18-4	tetrachloroethylene	230 ppm
71-43-2	benzene	800 ppm
108-88-3	toluene	560 ppm
100-41-4	ethylbenzene	1100* ppm
100-42-5	styrene	130 ppm
75-09-2	dichloromethane	560 ppm
56-23-5	carbon tetrachloride	13 ppm
107-06-2	1,2-dichloroethane	200 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
78-87-5	1,2-dichloropropane	220 ppm
79-01-6	trichloroethylene	450 ppm
108-90-7	chlorobenzene	150 ppm
106-46-7	1,4-dichlorobenzene	170 ppm

PAC-3:

67-56-1	methanol	7200* ppm
1330-20-7	xylene	2500* ppm
75-01-4	vinyl chloride	4800* ppm

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 4)

156-60-5	trans-dichloroethylene	1,700 ppm
156-59-2	cis-dichloroethylene	850 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
127-18-4	tetrachloroethylene	1,200 ppm
71-43-2	benzene	4000* ppm
108-88-3	toluene	3700* ppm
100-41-4	ethylbenzene	1800* ppm
100-42-5	styrene	1100* ppm
75-09-2	dichloromethane	6,900 ppm
56-23-5	carbon tetrachloride	340 ppm
107-06-2	1,2-dichloroethane	300 ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
78-87-5	1,2-dichloropropane	2,000 ppm
79-01-6	trichloroethylene	3,800 ppm
108-90-7	chlorobenzene	400 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 5)

· Control parameters

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

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

· Ingredients with biological limit values:

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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· **Additional information:** The lists that were valid during the creation 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.

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· Penetration time of glove material

For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours

(Contd. on page 7)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 6)

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Color:	Colorless
· Odor:	Alcohol-like
· Odor threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)

· Flash point: 9 °C (48.2 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 455 °C (851 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower:	5.5 Vol %
Upper:	44 Vol %

· Vapor pressure at 20 °C (68 °F): 100 hPa (75 mm Hg)

· Density at 20 °C (68 °F): 0.8011 g/cm³ (6.68518 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 7)

· Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.86 %
	799.9 g/l / 6.68 lb/gal
· Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

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:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

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

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
75-01-4	vinyl chloride	1
75-35-4	1,1-dichloroethylene	3
79-00-5	1,1,2-trichloroethane	3
95-50-1	1,2-dichlorobenzene	3
127-18-4	tetrachloroethylene	2A
71-43-2	benzene	1

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 8)

108-88-3	toluene	3
100-41-4	ethylbenzene	2B
100-42-5	styrene	2B
75-09-2	dichloromethane	2A
56-23-5	carbon tetrachloride	2B
107-06-2	1,2-dichloroethane	2B
71-55-6	1,1,1-trichloroethane	3
78-87-5	1,2-dichloropropane	1
79-01-6	trichloroethylene	1
106-46-7	1,4-dichlorobenzene	2B

· NTP (National Toxicology Program)

75-01-4	vinyl chloride	K
127-18-4	tetrachloroethylene	R
71-43-2	benzene	K
100-42-5	styrene	R
75-09-2	dichloromethane	R
56-23-5	carbon tetrachloride	R
107-06-2	1,2-dichloroethane	R
79-01-6	trichloroethylene	K
106-46-7	1,4-dichlorobenzene	R

· OSHA-Ca (Occupational Safety & Health Administration)

75-01-4	vinyl chloride	
71-43-2	benzene	
75-09-2	dichloromethane	

12 Ecological information

· Toxicity

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

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

· Behavior in environmental systems:

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

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

· Additional ecological information:

· General notes:

Water hazard class 1 (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.

US

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 9)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1230
- **UN proper shipping name**
- **DOT** Methanol solution
- **IMDG, IATA** METHANOL solution

- **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3, 6.1

- **IMDG**



- **Class** 3 Flammable liquids
- **Label** 3/6.1

- **IATA**



- **Class** 3 Flammable liquids
- **Label** 3 (6.1)

- **Packing group**
- **DOT, 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

(Contd. on page 11)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 10)

· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 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**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
1330-20-7	xylene
75-01-4	vinyl chloride
75-35-4	1,1-dichloroethylene
120-82-1	1,2,4-trichlorobenzene
79-00-5	1,1,2-trichloroethane
95-50-1	1,2-dichlorobenzene
127-18-4	tetrachloroethylene
71-43-2	benzene
108-88-3	toluene
100-41-4	ethylbenzene
100-42-5	styrene
75-09-2	dichloromethane
56-23-5	carbon tetrachloride
107-06-2	1,2-dichloroethane
71-55-6	1,1,1-trichloroethane
78-87-5	1,2-dichloropropane
79-01-6	trichloroethylene
108-90-7	chlorobenzene
106-46-7	1,4-dichlorobenzene

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 11)

· TSCA (Toxic Substances Control Act):

67-56-1	methanol	ACTIVE
1330-20-7	xylene	ACTIVE
75-01-4	vinyl chloride	ACTIVE
156-60-5	trans-dichloroethylene	ACTIVE
156-59-2	cis-dichloroethylene	ACTIVE
75-35-4	1,1-dichloroethylene	ACTIVE
120-82-1	1,2,4-trichlorobenzene	ACTIVE
79-00-5	1,1,2-trichloroethane	ACTIVE
95-50-1	1,2-dichlorobenzene	ACTIVE
127-18-4	tetrachloroethylene	ACTIVE
71-43-2	benzene	ACTIVE
108-88-3	toluene	ACTIVE
100-41-4	ethylbenzene	ACTIVE
100-42-5	styrene	ACTIVE
75-09-2	dichloromethane	ACTIVE
56-23-5	carbon tetrachloride	ACTIVE
107-06-2	1,2-dichloroethane	ACTIVE
71-55-6	1,1,1-trichloroethane	ACTIVE
78-87-5	1,2-dichloropropane	ACTIVE
79-01-6	trichloroethylene	ACTIVE
108-90-7	chlorobenzene	ACTIVE
106-46-7	1,4-dichlorobenzene	ACTIVE

· Hazardous Air Pollutants

67-56-1	methanol
1330-20-7	xylene
75-01-4	vinyl chloride
75-35-4	1,1-dichloroethylene
120-82-1	1,2,4-trichlorobenzene
79-00-5	1,1,2-trichloroethane
127-18-4	tetrachloroethylene
71-43-2	benzene
108-88-3	toluene
100-41-4	ethylbenzene
100-42-5	styrene
75-09-2	dichloromethane
56-23-5	carbon tetrachloride
107-06-2	1,2-dichloroethane
71-55-6	1,1,1-trichloroethane
78-87-5	1,2-dichloropropane
79-01-6	trichloroethylene

(Contd. on page 13)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 12)

108-90-7	chlorobenzene
106-46-7	1,4-dichlorobenzene

· Proposition 65
· Chemicals known to cause cancer:

75-01-4	vinyl chloride
75-35-4	1,1-dichloroethylene
79-00-5	1,1,2-trichloroethane
127-18-4	tetrachloroethylene
71-43-2	benzene
100-41-4	ethylbenzene
100-42-5	styrene
75-09-2	dichloromethane
56-23-5	carbon tetrachloride
107-06-2	1,2-dichloroethane
78-87-5	1,2-dichloropropane
79-01-6	trichloroethylene
106-46-7	1,4-dichlorobenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
79-01-6	trichloroethylene

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
71-43-2	benzene
108-88-3	toluene
79-01-6	trichloroethylene

· Carcinogenic categories
· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
75-01-4	vinyl chloride	A, K/L
156-60-5	trans-dichloroethylene	II
156-59-2	cis-dichloroethylene	II
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
120-82-1	1,2,4-trichlorobenzene	D
79-00-5	1,1,2-trichloroethane	C
95-50-1	1,2-dichlorobenzene	D
127-18-4	tetrachloroethylene	L
71-43-2	benzene	A, K/L
108-88-3	toluene	II
100-41-4	ethylbenzene	D

(Contd. on page 14)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 13)

75-09-2	dichloromethane	L
56-23-5	carbon tetrachloride	L
107-06-2	1,2-dichloroethane	B2
71-55-6	1,1,1-trichloroethane	II
79-01-6	trichloroethylene	CaH
108-90-7	chlorobenzene	D

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
75-01-4	vinyl chloride	A1
75-35-4	1,1-dichloroethylene	A4
79-00-5	1,1,2-trichloroethane	A3
95-50-1	1,2-dichlorobenzene	A4
127-18-4	tetrachloroethylene	A3
71-43-2	benzene	A1
108-88-3	toluene	A4
100-41-4	ethylbenzene	A3
100-42-5	styrene	A4
75-09-2	dichloromethane	A3
56-23-5	carbon tetrachloride	A2
107-06-2	1,2-dichloroethane	A4
71-55-6	1,1,1-trichloroethane	A4
78-87-5	1,2-dichloropropane	A4
79-01-6	trichloroethylene	A2
108-90-7	chlorobenzene	A3
106-46-7	1,4-dichlorobenzene	A3

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

75-01-4	vinyl chloride
79-00-5	1,1,2-trichloroethane
127-18-4	tetrachloroethylene
71-43-2	benzene
75-09-2	dichloromethane
56-23-5	carbon tetrachloride
107-06-2	1,2-dichloroethane
78-87-5	1,2-dichloropropane
79-01-6	trichloroethylene
106-46-7	1,4-dichlorobenzene

· 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.

(Contd. on page 15)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Regulated VOCs Sample (1X2 mL)

(Contd. of page 14)

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **Date of preparation / last revision** 05/29/2019 / 2· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

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

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Unregulated VOCs Sample (1X2 mL)
- **Part number:** QCM-116
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.
 • **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.47%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
74-87-3	chloromethane	150 ppm
74-83-9	bromomethane	19 ppm
75-71-8	dichlorodifluoromethane	3,000 ppm
74-97-5	bromochloromethane	600 ppm
87-68-3	hexachlorobuta-1,3-diene	1 ppm
87-61-6	1,2,3-trichlorobenzene	15 mg/m ³
75-69-4	trichlorofluoromethane	91 ppm

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 3)

75-00-3	chloroethane	300 ppm
95-49-8	2-chlorotoluene	75 ppm
106-43-4	4-chlorotoluene	1.2 ppm
74-95-3	dibromomethane	3 ppm
99-87-6	p-cymene	120 mg/m ³
594-20-7	2,2-dichloropropane	2.6 ppm
563-58-6	1,1-dichloropropene	1.3 ppm
142-28-9	1,3-dichloropropane	5.4 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
75-34-3	1,1-dichloroethane	300 ppm
108-86-1	bromobenzene	0.96 ppm
630-20-6	1,1,1,2-Tetrachloroethane	0.2 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
104-51-8	butylbenzene	3.6 ppm
135-98-8	2-Phenylbutane	1.2 ppm
96-18-4	1,2,3-trichloropropane	0.015 ppm
103-65-1	propylbenzene	3.7 ppm
98-82-8	cumene	50 ppm
108-67-8	mesitylene	140 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
98-06-6	tert-butylbenzene	1.7 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
74-87-3	chloromethane	910 ppm
74-83-9	bromomethane	210 ppm
75-71-8	dichlorodifluoromethane	10,000 ppm
74-97-5	bromochloromethane	830 ppm
87-68-3	hexachlorobuta-1,3-diene	3 ppm
87-61-6	1,2,3-trichlorobenzene	60 mg/m ³
75-69-4	trichlorofluoromethane	1,000 ppm
75-00-3	chloroethane	5100* ppm
95-49-8	2-chlorotoluene	310 ppm
106-43-4	4-chlorotoluene	13 ppm
74-95-3	dibromomethane	33 ppm
99-87-6	p-cymene	1,300 mg/m ³
594-20-7	2,2-dichloropropane	29 ppm
563-58-6	1,1-dichloropropene	15 ppm
142-28-9	1,3-dichloropropane	59 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
75-34-3	1,1-dichloroethane	670 ppm
108-86-1	bromobenzene	11 ppm

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 4)

630-20-6	1,1,1,2-Tetrachloroethane	2.2 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
104-51-8	butylbenzene	40 ppm
135-98-8	2-Phenylbutane	13 ppm
96-18-4	1,2,3-trichloropropane	170 ppm
103-65-1	propylbenzene	41 ppm
98-82-8	cumene	300 ppm
108-67-8	mesitylene	360 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
98-06-6	tert-butylbenzene	18 ppm

PAC-3:

67-56-1	methanol	7200* ppm
74-87-3	chloromethane	3,000 ppm
74-83-9	bromomethane	740 ppm
75-71-8	dichlorodifluoromethane	50,000 ppm
74-97-5	bromochloromethane	5,000 ppm
87-68-3	hexachlorobuta-1,3-diene	10 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
75-69-4	trichlorofluoromethane	10,000 ppm
75-00-3	chloroethane	20000** ppm
95-49-8	2-chlorotoluene	1,800 ppm
106-43-4	4-chlorotoluene	80 ppm
74-95-3	dibromomethane	200 ppm
99-87-6	p-cymene	1,900 mg/m ³
594-20-7	2,2-dichloropropane	170 ppm
563-58-6	1,1-dichloropropene	87 ppm
142-28-9	1,3-dichloropropane	350 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
75-34-3	1,1-dichloroethane	4,000 ppm
108-86-1	bromobenzene	240 ppm
630-20-6	1,1,1,2-Tetrachloroethane	13 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
104-51-8	butylbenzene	240 ppm
135-98-8	2-Phenylbutane	81 ppm
96-18-4	1,2,3-trichloropropane	1,000 ppm
103-65-1	propylbenzene	240 ppm
98-82-8	cumene	730 ppm
108-67-8	mesitylene	480 ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

98-06-6 tert-butylbenzene

(Contd. of page 5)

110 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Components with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Ingredients with biological limit values:**

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 6)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -98 °C (-144.4 °F)

Boiling point/Boiling range: 64.7 °C (148.5 °F)

· **Flash point:** 9 °C (48.2 °F)

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

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 7)

· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.80283 g/cm ³ (6.69962 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.6 %
VOC content:	99.62 %
	799.7 g/l / 6.67 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Inhalative	LC50/4 h	3.02 mg/L
67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 8)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

74-87-3	chloromethane	3
74-83-9	bromomethane	3
87-68-3	hexachlorobuta-1,3-diene	3
75-00-3	chloroethane	3
541-73-1	1,3-dichlorobenzene	3
630-20-6	1,1,1,2-Tetrachloroethane	2B
79-34-5	1,1,2,2-tetrachloroethane	2B
96-18-4	1,2,3-trichloropropane	2A
98-82-8	cumene	2B

- **NTP (National Toxicology Program)**

96-18-4	1,2,3-trichloropropane	R
98-82-8	cumene	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

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

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (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.

US

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 9)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 10)

· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 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**
- **Sara**

· **Section 355 (extremely hazardous substances):**

74-83-9	bromomethane
75-34-3	1,1-dichloroethane

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
74-87-3	chloromethane
74-83-9	bromomethane
75-71-8	dichlorodifluoromethane
87-68-3	hexachlorobuta-1,3-diene
75-69-4	trichlorofluoromethane
75-00-3	chloroethane
74-95-3	dibromomethane
10061-02-6	trans-1,3-dichloropropene
541-73-1	1,3-dichlorobenzene
75-34-3	1,1-dichloroethane
630-20-6	1,1,1,2-Tetrachloroethane
79-34-5	1,1,2,2-tetrachloroethane
96-18-4	1,2,3-trichloropropane
98-82-8	cumene
95-63-6	1,2,4-trimethylbenzene

· **TSCA (Toxic Substances Control Act):**

67-56-1	methanol	ACTIVE
74-87-3	chloromethane	ACTIVE

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 11)

74-83-9	bromomethane	ACTIVE
75-71-8	dichlorodifluoromethane	ACTIVE
74-97-5	bromochloromethane	ACTIVE
87-68-3	hexachlorobuta-1,3-diene	ACTIVE
87-61-6	1,2,3-trichlorobenzene	ACTIVE
75-69-4	trichlorofluoromethane	ACTIVE
75-00-3	chloroethane	ACTIVE
95-49-8	2-chlorotoluene	ACTIVE
106-43-4	4-chlorotoluene	ACTIVE
74-95-3	dibromomethane	ACTIVE
99-87-6	p-cymene	ACTIVE
594-20-7	2,2-dichloropropane	ACTIVE
142-28-9	1,3-dichloropropane	ACTIVE
10061-02-6	trans-1,3-dichloropropene	ACTIVE
541-73-1	1,3-dichlorobenzene	ACTIVE
75-34-3	1,1-dichloroethane	ACTIVE
108-86-1	bromobenzene	ACTIVE
630-20-6	1,1,1,2-Tetrachloroethane	ACTIVE
79-34-5	1,1,2,2-tetrachloroethane	ACTIVE
104-51-8	butylbenzene	ACTIVE
135-98-8	2-Phenylbutane	ACTIVE
96-18-4	1,2,3-trichloropropane	ACTIVE
103-65-1	propylbenzene	ACTIVE
98-82-8	cumene	ACTIVE
108-67-8	mesitylene	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
98-06-6	tert-butylbenzene	ACTIVE

· Hazardous Air Pollutants

67-56-1	methanol
74-87-3	chloromethane
74-83-9	bromomethane
87-68-3	hexachlorobuta-1,3-diene
75-00-3	chloroethane
75-34-3	1,1-dichloroethane
79-34-5	1,1,2,2-tetrachloroethane
98-82-8	cumene

· Proposition 65
· Chemicals known to cause cancer:

87-68-3	hexachlorobuta-1,3-diene
75-00-3	chloroethane
75-34-3	1,1-dichloroethane

(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 12)

630-20-6	1,1,1,2-Tetrachloroethane
79-34-5	1,1,2,2-tetrachloroethane
96-18-4	1,2,3-trichloropropane
98-82-8	cumene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

74-87-3	chloromethane
---------	---------------

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
74-87-3	chloromethane
74-83-9	bromomethane

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

74-87-3	chloromethane	D, CBD
74-83-9	bromomethane	D
74-97-5	bromochloromethane	D
87-68-3	hexachlorobuta-1,3-diene	C
541-73-1	1,3-dichlorobenzene	D
75-34-3	1,1-dichloroethane	C
108-86-1	bromobenzene	II
630-20-6	1,1,1,2-Tetrachloroethane	C
79-34-5	1,1,2,2-tetrachloroethane	L
96-18-4	1,2,3-trichloropropane	L
98-82-8	cumene	D, CBD
108-67-8	mesitylene	II
95-63-6	1,2,4-trimethylbenzene	II

· **TLV (Threshold Limit Value established by ACGIH)**

74-87-3	chloromethane	A4
74-83-9	bromomethane	A4
75-71-8	dichlorodifluoromethane	A4
87-68-3	hexachlorobuta-1,3-diene	A3
75-69-4	trichlorofluoromethane	A4
75-00-3	chloroethane	A3
75-34-3	1,1-dichloroethane	A4
79-34-5	1,1,2,2-tetrachloroethane	A3
96-18-4	1,2,3-trichloropropane	A3

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

74-87-3	chloromethane
74-83-9	bromomethane
87-68-3	hexachlorobuta-1,3-diene

(Contd. on page 14)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

(Contd. of page 13)

79-34-5	1,1,2,2-tetrachloroethane
96-18-4	1,2,3-trichloropropane

· **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.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **Date of preparation / last revision** 05/29/2019 / 2· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

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

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck Trihalomethanes Sample (1X1 mL)
- **Part number:** QCM-125
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.874%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
75-25-2	bromoform	1.5 ppm
67-66-3	trichloromethane	2 ppm
124-48-1	dibromochloromethane	1.1 mg/m ³
75-27-4	bromodichloromethane	1.3 mg/m ³

· **PAC-2:**

67-56-1	methanol	2,100 ppm
75-25-2	bromoform	6.8 ppm

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 3)

67-66-3	trichloromethane	64 ppm
124-48-1	dibromochloromethane	12 mg/m ³
75-27-4	bromodichloromethane	14 mg/m ³
· PAC-3:		
67-56-1	methanol	7200* ppm
75-25-2	bromoform	41 ppm
67-66-3	trichloromethane	3,200 ppm
124-48-1	dibromochloromethane	73 mg/m ³
75-27-4	bromodichloromethane	85 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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

· Control parameters

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

67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm
Long-term value: 260 mg/m³, 200 ppm
Skin

TLV Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Skin; BEI

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 4)

· Ingredients with biological limit values:
67-56-1 methanol

BEI	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)

· Additional information: The lists that were valid during the creation 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.

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· Eye protection:


Tightly sealed goggles

9 Physical and chemical properties

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

Form: Fluid

Color: Colorless

· Odor: Alcohol-like

· Odor threshold: Not determined.

· pH-value: Not determined.

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 5)

· Change in condition	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· Flash point:	9 °C (48.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.80177 g/cm ³ (6.69077 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.91 %
	801.0 g/l / 6.68 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

US

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 6)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

ATE (Acute Toxicity Estimate)		
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:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

75-25-2	bromoform	3
67-66-3	trichloromethane	2B
124-48-1	dibromochloromethane	3
75-27-4	bromodichloromethane	2B

- **NTP (National Toxicology Program)**

67-66-3	trichloromethane	R
75-27-4	bromodichloromethane	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

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

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (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.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

· **Other adverse effects** No further relevant information available.

(Contd. of page 7)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Not Regulated, De minimus Quantities** -

· **UN-Number**

· **DOT, IMDG, IATA** UN1230

· **UN proper shipping name**

· **DOT** Methanol solution
· **IMDG, IATA** METHANOL solution

· **Transport hazard class(es)**

· **DOT**

· **Class** 3 Flammable liquids
· **Label** 3, 6.1

· **IMDG**

· **Class** 3 Flammable liquids
· **Label** 3/6.1

· **IATA**

· **Class** 3 Flammable liquids
· **Label** 3 (6.1)

· **Packing group**

· **DOT, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 8)

· 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 MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 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
- Sara

· Section 355 (extremely hazardous substances):

67-66-3 trichloromethane

· Section 313 (Specific toxic chemical listings):

67-56-1 methanol

75-25-2 bromoform

67-66-3 trichloromethane

75-27-4 bromodichloromethane

· TSCA (Toxic Substances Control Act):

67-56-1 methanol

ACTIVE

75-25-2 bromoform

ACTIVE

67-66-3 trichloromethane

ACTIVE

124-48-1 dibromochloromethane

ACTIVE

75-27-4 bromodichloromethane

ACTIVE

· Hazardous Air Pollutants

67-56-1 methanol

75-25-2 bromoform

67-66-3 trichloromethane

· Proposition 65

· Chemicals known to cause cancer:

75-25-2 bromoform

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 9)

67-66-3	trichloromethane	
75-27-4	bromodichloromethane	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
67-56-1	methanol	
67-66-3	trichloromethane	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
75-25-2	bromoform	B2
67-66-3	trichloromethane	B2, L, NL
124-48-1	dibromochloromethane	C
75-27-4	bromodichloromethane	B2
· TLV (Threshold Limit Value established by ACGIH)		
75-25-2	bromoform	A3
67-66-3	trichloromethane	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
67-66-3	trichloromethane	
· 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.

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

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

· **Date of preparation / last revision** 05/29/2019 / 2

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Trihalomethanes Sample (1X1 mL)

(Contd. of page 10)

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
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.**

US

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck check EDB / DBCP Sample (1 x 2 mL)
- **Part number:** QCM-135
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.998%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
106-93-4	1,2-dibromoethane	17 ppm
96-12-8	1,2-dibromo-3-chloropropane	0.003 ppm

· **PAC-2:**

67-56-1	methanol	2,100 ppm
106-93-4	1,2-dibromoethane	24 ppm
96-12-8	1,2-dibromo-3-chloropropane	2.2 ppm

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 3)

· PAC-3:

67-56-1	methanol	7200* ppm
106-93-4	1,2-dibromoethane	46 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 ppm

7 Handling and storage

· Handling:
· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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

· Control parameters
· Components with limit values that require monitoring at the workplace:
67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV Short-term value: 328 mg/m³, 250 ppm

Long-term value: 262 mg/m³, 200 ppm

Skin; BEI

· Ingredients with biological limit values:
67-56-1 methanol

BEI 15 mg/L

Medium: urine

Time: end of shift

Parameter: Methanol (background, nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 4)

- **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.
- **Breathing equipment:**
 - When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
 - Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
- **Protection of hands:**
 - Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
- **Material of gloves**
 - For normal use: nitrile rubber, 11-13 mil thickness
 - For direct contact with the chemical: butyl rubber, 12-15 mil thickness
- **Penetration time of glove material**
 - For normal use: nitrile rubber: 1 hour
 - For direct contact with the chemical: butyl rubber: >4 hours
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

Form:	Fluid
Color:	Colorless
- **Odor:** Alcohol-like
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
- **Flash point:** 9 °C (48.2 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 455 °C (851 °F)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 5)

· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.80003 g/cm ³ (6.67625 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	800.0 g/l / 6.68 lb/gal
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Inhalative LC50/4 h 3 mg/L

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 6)

67-56-1 methanol

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

· Primary irritant effect:
· on the skin: No irritant effect.

· on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

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

106-93-4	1,2-dibromoethane	2A
96-12-8	1,2-dibromo-3-chloropropane	2B

· NTP (National Toxicology Program)

106-93-4	1,2-dibromoethane	R
96-12-8	1,2-dibromo-3-chloropropane	R

· OSHA-Ca (Occupational Safety & Health Administration)

96-12-8	1,2-dibromo-3-chloropropane
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12 Ecological information

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

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:
· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· Additional ecological information:
· General notes:

Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 7)

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

14 Transport information

· UN-Number	UN1992
· DOT, IMDG, IATA	
· UN proper shipping name	Flammable liquids, toxic, n.o.s. (Methanol)
· DOT	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)
· IMDG, IATA	
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3, 6.1
· IMDG	
	
· Class	3 Flammable liquids
· Label	3/6.1
· IATA	
	
· Class	3 Flammable liquids
· Label	3 (6.1)
· Packing group	II
· DOT, IMDG, IATA	
· 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/73/78 and the IBC Code	Not applicable.

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 8)

· Transport/Additional information:
· DOT
· Quantity limitations

On passenger aircraft/rail: 1 L

On cargo aircraft only: 60 L

· IMDG
· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.
(METHANOL), 3 (6.1), II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

67-56-1 methanol

ACTIVE

106-93-4 1,2-dibromoethane

ACTIVE

96-12-8 1,2-dibromo-3-chloropropane

ACTIVE

· Hazardous Air Pollutants

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

106-93-4 1,2-dibromoethane

96-12-8 1,2-dibromo-3-chloropropane

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

106-93-4 1,2-dibromoethane

96-12-8 1,2-dibromo-3-chloropropane

· Chemicals known to cause developmental toxicity:

67-56-1 methanol

106-93-4 1,2-dibromoethane

· Carcinogenic categories
· EPA (Environmental Protection Agency)

106-93-4 1,2-dibromoethane

L

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 2

Reviewed on 05/29/2019

Trade name: QualityCheck check EDB / DBCP Sample (1 x 2 mL)

(Contd. of page 9)

· TLV (Threshold Limit Value established by ACGIH)

106-93-4 1,2-dibromoethane

A3

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

106-93-4 1,2-dibromoethane

96-12-8 1,2-dibromo-3-chloropropane

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 1

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

· * Data compared to the previous version altered.

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Pesticides no. 1 sample (1X2 mL)
- **Part number:** QCM-211
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetone
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 1)

Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Call a poison center/doctor if you feel unwell.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	99.99%
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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.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 2)

- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

67-64-1	acetone	200 ppm
77-47-4	hexachlorocyclopentadiene	0.03 ppm
72-43-5	methoxychlor	30 mg/m ³
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	1.2 mg/m ³
118-74-1	hexachlorobenzene	0.006 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	0.15 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³
309-00-2	aldrin (ISO)	0.91 mg/m ³
60-57-1	dieldrin (ISO)	0.3 mg/m ³
72-20-8	endrin (ISO)	1.8 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m ³

· PAC-2:

67-64-1	acetone	3200* ppm
77-47-4	hexachlorocyclopentadiene	0.55 ppm
72-43-5	methoxychlor	150 mg/m ³

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 3)

1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	13 mg/m ³
118-74-1	hexachlorobenzene	14 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	0.5 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³
60-57-1	dieldrin (ISO)	6.8 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³

· PAC-3:

67-64-1	acetone	5700* ppm
77-47-4	hexachlorocyclopentadiene	1 ppm
72-43-5	methoxychlor	4,500 mg/m ³
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	78 mg/m ³
118-74-1	hexachlorobenzene	91 mg/m ³
1024-57-3	heptachlor epoxide - isomer B	3 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³
60-57-1	dieldrin (ISO)	450 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³

7 Handling and storage

· Handling:
· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 4)

· Control parameters

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

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
BEI	

· Ingredients with biological limit values:

67-64-1 acetone

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

· **Additional information:** The lists that were valid during the creation 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

- For normal use: nitrile rubber, 11-13 mil thickness
- For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· Penetration time of glove material

- For normal use: nitrile rubber: 1 hour
- For direct contact with the chemical: butyl rubber: >4 hours

· Eye protection:



Tightly sealed goggles

US

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 5)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: Colorless

· Odor: Characteristic

· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: -94.7 °C (-138.5 °F)

Boiling point/Boiling range: 55.8-56.6 °C (132.4-133.9 °F)

· Flash point: -17 °C (1.4 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 465 °C (869 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 2.6 Vol %

Upper: 13 Vol %

· Vapor pressure at 20 °C (68 °F): 245.3 hPa (184 mm Hg)

· Density at 20 °C (68 °F): 0.791 g/cm³ (6.6009 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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

· Viscosity:

Dynamic at 20 °C (68 °F): 32 mPas

Kinematic: Not determined.

· Solvent content:

Organic solvents: 100.0 %

VOC content: 0.00 %

0.0 g/l / 0.00 lb/gal

Solids content: 0.0 %

· Other information: No further relevant information available.

US

(Contd. on page 7)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 6)

10 Stability and reactivity

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

11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**
67-64-1 acetone

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

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

72-43-5	methoxychlor	3
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	3
118-74-1	hexachlorobenzene	2B
1024-57-3	heptachlor epoxide - isomer B	2B
58-89-9	γ -HCH or γ -BHC	1
309-00-2	aldrin (ISO)	3
60-57-1	dieldrin (ISO)	3
72-20-8	endrin (ISO)	3
76-44-8	heptachlor (ISO)	2B

· **NTP (National Toxicology Program)**

118-74-1	hexachlorobenzene	R
58-89-9	γ -HCH or γ -BHC	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 7)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|--------------------------------------|
| · UN-Number
· DOT, IMDG, IATA | UN1090 |
| · UN proper shipping name
· DOT
· IMDG, IATA | Acetone solution
ACETONE solution |
| · Transport hazard class(es)
· DOT
<div style="text-align: center;">  </div> | |
| · Class
· Label | 3 Flammable liquids
3 |

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 8)

· IMDG, IATA



· Class	3 Flammable liquids
· Label	3

· Packing group	
· DOT, IMDG, IATA	II

· Environmental hazards:	Not applicable.
--------------------------	-----------------

· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· Stowage Category	E

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
---	-----------------

· Transport/Additional information:

· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":	UN 1090 ACETONE SOLUTION, 3, II
--------------------------	---------------------------------

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

77-47-4	hexachlorocyclopentadiene
58-89-9	γ -HCH or γ -BHC
309-00-2	aldrin (ISO)
72-20-8	endrin (ISO)

· Section 313 (Specific toxic chemical listings):

77-47-4	hexachlorocyclopentadiene
72-43-5	methoxychlor
1918-16-7	propachlor (ISO)
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)
118-74-1	hexachlorobenzene

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 9)

58-89-9	γ -HCH or γ -BHC
309-00-2	aldrin (ISO)
76-44-8	heptachlor (ISO)

· TSCA (Toxic Substances Control Act):

67-64-1	acetone	ACTIVE
77-47-4	hexachlorocyclopentadiene	ACTIVE
118-74-1	hexachlorobenzene	ACTIVE
58-89-9	γ -HCH or γ -BHC	ACTIVE

· Hazardous Air Pollutants

77-47-4	hexachlorocyclopentadiene
72-43-5	methoxychlor
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)
118-74-1	hexachlorobenzene
58-89-9	γ -HCH or γ -BHC
76-44-8	heptachlor (ISO)

· Proposition 65
· Chemicals known to cause cancer:

1918-16-7	propachlor (ISO)
118-74-1	hexachlorobenzene
1024-57-3	heptachlor epoxide - isomer B
58-89-9	γ -HCH or γ -BHC
309-00-2	aldrin (ISO)
60-57-1	dieldrin (ISO)
76-44-8	heptachlor (ISO)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

118-74-1	hexachlorobenzene
72-20-8	endrin (ISO)
76-44-8	heptachlor (ISO)

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1	acetone	I
77-47-4	hexachlorocyclopentadiene	E, NL
72-43-5	methoxychlor	D
1582-09-8	trifluralin (ISO) (containing < 0,5 ppm NPDA)	C
118-74-1	hexachlorobenzene	B2
1024-57-3	heptachlor epoxide - isomer B	B2
309-00-2	aldrin (ISO)	B2

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

(Contd. of page 10)

60-57-1	dieldrin (ISO)	B2
72-20-8	endrin (ISO)	D
76-44-8	heptachlor (ISO)	B2

· TLV (Threshold Limit Value established by ACGIH)

67-64-1	acetone	A4
77-47-4	hexachlorocyclopentadiene	A4
72-43-5	methoxychlor	A4
118-74-1	hexachlorobenzene	A3
1024-57-3	heptachlor epoxide - isomer B	A3
58-89-9	γ -HCH or γ -BHC	A3
309-00-2	aldrin (ISO)	A3
60-57-1	dieldrin (ISO)	(A4)
72-20-8	endrin (ISO)	A4
76-44-8	heptachlor (ISO)	A3

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

72-43-5	methoxychlor
309-00-2	aldrin (ISO)
60-57-1	dieldrin (ISO)
76-44-8	heptachlor (ISO)

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 2

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 1 sample (1X2 mL)

BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

(Contd. of page 11)

US

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Pesticides no. 2 sample (1X2 mL)
- **Part number:** QCM-212
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetone
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 1)

Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	99.993%
---------	---------	---------

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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 2)

- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

67-64-1	acetone	200 ppm
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· PAC-2:

67-64-1	acetone	3200* ppm
---------	---------	-----------

· PAC-3:

67-64-1	acetone	5700* ppm
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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 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 receptacle tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
BEI	

· Ingredients with biological limit values:

67-64-1 acetone

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

- **Additional information:** The lists that were valid during the creation 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 4)

· **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

Color: Colorless

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -94.7 °C (-138.5 °F)

Boiling point/Boiling range: 55.8-56.6 °C (132.4-133.9 °F)

· **Flash point:** -17 °C (1.4 °F)

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

· **Ignition temperature:** 465 °C (869 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 2.6 Vol %

Upper: 13 Vol %

· **Vapor pressure at 20 °C (68 °F):** 245.3 hPa (184 mm Hg)

· **Density at 20 °C (68 °F):** 0.791 g/cm³ (6.6009 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 5)

· Viscosity:	
Dynamic at 20 °C (68 °F):	32 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

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

15972-60-8 alachlor (ISO)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	3,500 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

122-34-9	simazine (ISO)	3
1912-24-9	atrazine (ISO)	3

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 6)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:
· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· Additional ecological information:
· General notes:

Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

· UN-Number
· DOT, IMDG, IATA

UN1090

· UN proper shipping name
· DOT

Acetone solution

· IMDG, IATA

ACETONE solution

· Transport hazard class(es)
· DOT

· Class

3 Flammable liquids

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 7)

· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· Stowage Category	E
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1090 ACETONE SOLUTION, 3, II

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

15972-60-8 alachlor (ISO)

122-34-9 simazine (ISO)

1912-24-9 atrazine (ISO)

TSCA (Toxic Substances Control Act):

67-64-1 acetone

ACTIVE

122-34-9 simazine (ISO)

ACTIVE

1912-24-9 atrazine (ISO)

ACTIVE

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 8)

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65
· Chemicals known to cause cancer:

15972-60-8 alachlor (ISO)

· Chemicals known to cause reproductive toxicity for females:

122-34-9 simazine (ISO)

1912-24-9 atrazine (ISO)

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

122-34-9 simazine (ISO)

1912-24-9 atrazine (ISO)

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1 acetone

I

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

15972-60-8 alachlor (ISO)

A3

1912-24-9 atrazine (ISO)

A4

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

None of the ingredients is listed.

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 2

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Pesticides no. 2 sample (1X2 mL)

(Contd. of page 9)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck Toxaphene Sample (1X2 mL)
- **Part number:** QCM-220
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *1
 Fire = 3
 Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.
 • **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.998%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
8001-35-2	Toxaphene	1 mg/m ³

· **PAC-2:**

67-56-1	methanol	2,100 ppm
8001-35-2	Toxaphene	20 mg/m ³

· **PAC-3:**

67-56-1	methanol	7200* ppm
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(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 3)

8001-35-2 Toxaphene

200 mg/m³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Components with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Ingredients with biological limit values:**

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -98 °C (-144.4 °F)

Boiling point/Boiling range: 64.7 °C (148.5 °F)

· **Flash point:** 9 °C (48.2 °F)

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

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 5)

· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.80002 g/cm ³ (6.67617 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	800.0 g/l / 6.68 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

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)

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 6)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

8001-35-2	Toxaphene	2B
-----------	-----------	----

- **NTP (National Toxicology Program)**

8001-35-2	Toxaphene	R
-----------	-----------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1230

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 7)

· UN proper shipping name
 · DOT
 · IMDG
 · IATA

Methanol solution
 METHANOL solution
 METHANOL mixture

· Transport hazard class(es)

· DOT



· Class
 · Label

3 Flammable liquids
 3, 6.1

· IMDG



· Class
 · Label

3 Flammable liquids
 3/6.1

· IATA



· Class
 · Label

3 Flammable liquids
 3 (6.1)

· Packing group
 · DOT, IMDG, IATA

II

· Environmental hazards:

Not applicable.

· Special precautions for user
 · Danger code (Kemler):
 · EMS Number:
 · Stowage Category
 · Stowage Code

Warning: Flammable liquids
 336
 F-E,S-D
 B
 SW2 Clear of living quarters.

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT
 · Quantity limitations

On passenger aircraft/rail: 1 L
 On cargo aircraft only: 60 L

· IMDG
 · Limited quantities (LQ)

1L

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 8)

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

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**

· **Sara**

· **Section 355 (extremely hazardous substances):**

8001-35-2 Toxaphene

· **Section 313 (Specific toxic chemical listings):**

All ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

67-56-1 methanol

ACTIVE

· **Hazardous Air Pollutants**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

8001-35-2 Toxaphene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1 methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

8001-35-2 Toxaphene

B2

· **TLV (Threshold Limit Value established by ACGIH)**

8001-35-2 Toxaphene

A3

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

8001-35-2 Toxaphene

· **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.

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

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

· **Date of preparation / last revision** 05/29/2019 / 2

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Toxaphene Sample (1X2 mL)

(Contd. of page 9)

· Abbreviations and acronyms:

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

· * Data compared to the previous version altered.

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck Chlordane Sample (1X2 mL)
- **Part number:** QCM-230
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.998%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
57-74-9	chlordane (ISO)	4.5 mg/m ³

· **PAC-2:**

67-56-1	methanol	2,100 ppm
57-74-9	chlordane (ISO)	50 mg/m ³

· **PAC-3:**

67-56-1	methanol	7200* ppm
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(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 3)

57-74-9 chlordane (ISO)

500 mg/m³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Components with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Ingredients with biological limit values:**

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
-----	---

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -98 °C (-144.4 °F)

Boiling point/Boiling range: 64.7 °C (148.5 °F)

· **Flash point:** 9 °C (48.2 °F)

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

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 5)

· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.80002 g/cm ³ (6.67617 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	800.0 g/l / 6.68 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

(Contd. on page 7)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 6)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

57-74-9 chlordane (ISO)	2B
-------------------------	----

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1230

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 7)

· **UN proper shipping name**
 · **DOT** Methanol solution
 · **IMDG** METHANOL solution
 · **IATA** METHANOL mixture

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
 · **Label** 3, 6.1

· **IMDG**



· **Class** 3 Flammable liquids
 · **Label** 3/6.1

· **IATA**



· **Class** 3 Flammable liquids
 · **Label** 3 (6.1)

· **Packing group**

· **DOT, 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 MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**
 · **Quantity limitations** On passenger aircraft/rail: 1 L
 On cargo aircraft only: 60 L

· **IMDG**

· **Limited quantities (LQ)** 1L

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 8)

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

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
· Sara
· Section 355 (extremely hazardous substances):

57-74-9 | chlordane (ISO)

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

67-56-1 | methanol

ACTIVE

· Hazardous Air Pollutants

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

57-74-9 | chlordane (ISO)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

67-56-1 | methanol

· Carcinogenic categories
· EPA (Environmental Protection Agency)

57-74-9 | chlordane (ISO)

B2

· TLV (Threshold Limit Value established by ACGIH)

57-74-9 | chlordane (ISO)

A3

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

57-74-9 | chlordane (ISO)

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 2

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck Chlordane Sample (1X2 mL)

(Contd. of page 9)

· Abbreviations and acronyms:

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

· * Data compared to the previous version altered.

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck PCB Screening Sample (1X2 mL)
- **Part number:** QCM-249
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 1)

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed: Call a POISON CENTER or doctor/physician.
 Specific treatment (see on this label).
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.999%
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4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 2)

Remove breathing apparatus 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.

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

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

· **Special hazards arising from the substance or mixture**

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

· **Advice for firefighters**

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

6 Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
11096-82-5	aroclor 1260	0.41 mg/m ³

· **PAC-2:**

67-56-1	methanol	2,100 ppm
11096-82-5	aroclor 1260	4.5 mg/m ³

· **PAC-3:**

67-56-1	methanol	7200* ppm
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(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

11096-82-5 aroclor 1260

(Contd. of page 3)

260 mg/m³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Components with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Ingredients with biological limit values:**

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -98 °C (-144.4 °F)

Boiling point/Boiling range: 64.7 °C (148.5 °F)

· **Flash point:** 9 °C (48.2 °F)

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

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 5)

· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.8 g/cm ³ (6.676 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	800.0 g/l / 6.68 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 6)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

Additional toxicological information:

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

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

11096-82-5 aroclor 1260

R**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1230

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 7)

· **UN proper shipping name**
· **DOT**
· **IMDG, IATA**

Methanol solution
METHANOL solution

· **Transport hazard class(es)**

· **DOT**



· **Class**
· **Label**

3 Flammable liquids
3, 6.1

· **IMDG**



· **Class**
· **Label**

3 Flammable liquids
3/6.1

· **IATA**



· **Class**
· **Label**

3 Flammable liquids
3 (6.1)

· **Packing group**
· **DOT, IMDG, IATA**

II

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**
· **Danger code (Kemler):**
· **EMS Number:**
· **Stowage Category**
· **Stowage Code**

Warning: Flammable liquids
336
F-E,S-D
B
SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **DOT**
· **Quantity limitations**

On passenger aircraft/rail: 1 L
On cargo aircraft only: 60 L

· **IMDG**
· **Limited quantities (LQ)**

1L

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 8)

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

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**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1 | methanol

· **TSCA (Toxic Substances Control Act):**

67-56-1 | methanol

ACTIVE

· **Hazardous Air Pollutants**

67-56-1 | methanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

11096-82-5 | aroclor 1260

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1 | methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **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.

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

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

· **Date of preparation / last revision** 05/29/2019 / 2

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck PCB Screening Sample (1X2 mL)

(Contd. of page 9)

· Abbreviations and acronyms:

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

· * Data compared to the previous version altered.

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Carbamates Sample (1X2 mL)
- **Part number:** QCM-251
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetonitrile
- **Hazard statements**
Highly flammable liquid and vapor.
Harmful if swallowed.
Causes serious eye irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 1)

Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

75-05-8	acetonitrile	99.92%
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4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; 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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 2)

- **After swallowing:** Immediately call a 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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

75-05-8	acetonitrile	13 ppm
1563-66-2	carbofuran (ISO)	0.3 mg/m ³
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m ³
16752-77-5	methomyl	0.91 mg/m ³
116-06-3	aldicarb (ISO)	0.027 mg/m ³

· PAC-2:

75-05-8	acetonitrile	50 ppm
1563-66-2	carbofuran (ISO)	0.43 mg/m ³
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m ³
16752-77-5	methomyl	10 mg/m ³
116-06-3	aldicarb (ISO)	0.3 mg/m ³

· PAC-3:

75-05-8	acetonitrile	150 ppm
1563-66-2	carbofuran (ISO)	3.7 mg/m ³
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/m ³

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 3)

16752-77-5	methomyl	23 mg/m ³
116-06-3	aldicarb (ISO)	1.8 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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

75-05-8 acetonitrile

PEL	Long-term value: 70 mg/m ³ , 40 ppm
REL	Long-term value: 34 mg/m ³ , 20 ppm
TLV	Long-term value: 34 mg/m ³ , 20 ppm
	Skin

- **Additional information:** The lists that were valid during the creation 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.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
- **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 4)

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

Color: Colorless

· **Odor:** Aromatic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: -46 °C (-50.8 °F)

Boiling point/Boiling range: 81 °C (177.8 °F)

· **Flash point:** 2 °C (35.6 °F)

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

· **Ignition temperature:** 525 °C (977 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 4.4 Vol %

Upper: 16 Vol %

· **Vapor pressure at 20 °C (68 °F):** 0 hPa (0 mm Hg)

· **Density at 20 °C (68 °F):** 0.786 g/cm³ (6.55917 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 5)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C (68 °F):** 0.39 mPas
 - Kinematic:** Not determined.
- **Solvent content:**
 - VOC content:** 0.00 %
0.0 g/l / 0.00 lb/gal
- **Solids content:** 0.1 %
- **Other information** No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

ATE (Acute Toxicity Estimate)

Oral	LD50	1,321 mg/kg (rat)
Dermal	LD50	>2,002 mg/kg (rabbit)
Inhalative	LC50/4 h	3,590 mg/L (mouse)

75-05-8 acetonitrile

Oral	LD50	1,320 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3,587 mg/L (mouse)

16752-77-5 methomyl

Oral	LD50	17 mg/kg (rat)
Dermal	LD50	5,880 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

Irritant

(Contd. of page 6)

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

116-06-3 | aldicarb (ISO)

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:**

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

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport information**· **UN-Number**· **DOT, IMDG, IATA**

UN1648

· **UN proper shipping name**· **DOT**

Acetonitrile solution

· **IMDG, IATA**

ACETONITRILE solution

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 7)

· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

· Label

3

· Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

Not applicable.

· 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/73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1648 ACETONITRILE SOLUTION, 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

1563-66-2 carbofuran (ISO)

23135-22-0 N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 8)

16752-77-5	methomyl	
116-06-3	aldicarb (ISO)	
· Section 313 (Specific toxic chemical listings):		
75-05-8	acetonitrile	
1563-66-2	carbofuran (ISO)	
116-06-3	aldicarb (ISO)	
· TSCA (Toxic Substances Control Act):		
75-05-8	acetonitrile	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
116-06-3	aldicarb (ISO)	ACTIVE
· Hazardous Air Pollutants		
75-05-8	acetonitrile	
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
75-05-8	acetonitrile	CBD, D
116-06-3	aldicarb (ISO)	D
· TLV (Threshold Limit Value established by ACGIH)		
75-05-8	acetonitrile	A4
1563-66-2	carbofuran (ISO)	A4
16752-77-5	methomyl	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· 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.

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

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

· **Date of preparation / last revision** 05/29/2019 / 2

· **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)

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Carbamates Sample (1X2 mL)

(Contd. of page 9)

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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

US

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS PAH Sample (1X2 mL)
- **Part number:** QCM-311
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetone
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 1)

Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	100.0%
---------	---------	--------

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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 2)

- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

67-64-1	acetone	200 ppm
50-32-8	benzo[a]pyrene	0.6 mg/m ³

· PAC-2:

67-64-1	acetone	3200* ppm
50-32-8	benzo[a]pyrene	120 mg/m ³

· PAC-3:

67-64-1	acetone	5700* ppm
50-32-8	benzo[a]pyrene	700 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 3)

Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

- Keep receptacle tightly sealed.

- Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
BEI	

- **Ingredients with biological limit values:**

67-64-1 acetone

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

- **Additional information:** The lists that were valid during the creation 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.

- Avoid contact with the eyes.

- Avoid contact with the eyes and skin.

- **Breathing equipment:**

- When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

- Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

- **Protection of hands:**

- Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 4)

- **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
 - Color:** Colorless
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range:** -94.7 °C (-138.5 °F)
 - Boiling point/Boiling range:** 55.8-56.6 °C (132.4-133.9 °F)
- **Flash point:** -17 °C (1.4 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 465 °C (869 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
 - Lower:** 2.6 Vol %
 - Upper:** 13 Vol %
- **Vapor pressure at 20 °C (68 °F):** 245.3 hPa (184 mm Hg)
- **Density at 20 °C (68 °F):** 0.8 g/cm³ (6.676 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 5)

- | | |
|----------------------------------|--|
| · Viscosity: | |
| Dynamic at 20 °C (68 °F): | 32 mPas |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 100.0 % |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |
| Solids content: | 0.0 % |
| · Other information | |
| | No further relevant information available. |

10 Stability and reactivity

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

11 Toxicological information

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

· LD/LC50 values that are relevant for classification:

67-64-1 acetone

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

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

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

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

50-32-8	benzo[a]pyrene	1
---------	----------------	---

· NTP (National Toxicology Program)
--

50-32-8	benzo[a]pyrene	R
---------	----------------	---

· OSHA-Ca (Occupational Safety & Health Administration)
--

None of the ingredients is listed.

US

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 6)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA | UN1090 |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA | Acetone solution
ACETONE solution |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids
3 |

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 7)

· IMDG, IATA



· Class	3 Flammable liquids
· Label	3

· Packing group	
· DOT, IMDG, IATA	II

· Environmental hazards:	Not applicable.
--------------------------	-----------------

· 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 MARPOL73/78 and the IBC Code	Not applicable.
---	-----------------

· Transport/Additional information:

· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":	UN 1090 ACETONE SOLUTION, 3, II
--------------------------	---------------------------------

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

50-32-8 benzo[a]pyrene

· TSCA (Toxic Substances Control Act):

67-64-1	acetone	ACTIVE
50-32-8	benzo[a]pyrene	ACTIVE

· Hazardous Air Pollutants

50-32-8 benzo[a]pyrene

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

(Contd. of page 8)

· Proposition 65
· Chemicals known to cause cancer:

50-32-8 benzo[a]pyrene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1 acetone

I

50-32-8 benzo[a]pyrene

CaH

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

50-32-8 benzo[a]pyrene

A2

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

50-32-8 benzo[a]pyrene

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 2

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS PAH Sample (1X2 mL)

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. of page 9)

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

US

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Phthalate and Adipate Sample (1X2 mL)
- **Part number:** QCM-312
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetone
- **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 1)

Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-64-1	acetone	99.987%
---------	---------	---------

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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 2)

- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

67-64-1	acetone	200 ppm
117-81-7	di-(2-ethylhexyl) phthalate	10 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	17 mg/m ³

· PAC-2:

67-64-1	acetone	3200* ppm
117-81-7	di-(2-ethylhexyl) phthalate	1,000 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	180 mg/m ³

· PAC-3:

67-64-1	acetone	5700* ppm
117-81-7	di-(2-ethylhexyl) phthalate	6,100 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	1,100 mg/m ³

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 3)

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

Components with limit values that require monitoring at the workplace:

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
BEI	

Ingredients with biological limit values:

67-64-1 acetone

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

- **Additional information:** The lists that were valid during the creation 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.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 4)

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

Eye protection:


Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:

Form: Fluid

Color: Colorless

Odor: Characteristic

Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: -94.7 °C (-138.5 °F)

Boiling point/Boiling range: 55.8-56.6 °C (132.4-133.9 °F)

Flash point: -17 °C (1.4 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 465 °C (869 °F)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:

Lower: 2.6 Vol %

Upper: 13 Vol %

Vapor pressure at 20 °C (68 °F): 245.3 hPa (184 mm Hg)

Density at 20 °C (68 °F): 0.80002 g/cm³ (6.67617 lbs/gal)

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 5)

· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	32 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**
67-64-1 acetone

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

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

117-81-7 di-(2-ethylhexyl) phthalate

2B

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 6)

103-23-1	Di-(2-ethylhexyl) adipate	3
· NTP (National Toxicology Program)		
117-81-7	di-(2-ethylhexyl) phthalate	R
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN1090
· UN proper shipping name	
· DOT	Acetone solution
· IMDG, IATA	ACETONE solution

(Contd. on page 8)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 7)

· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

· Label

3

· Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

Not applicable.

· Special precautions for user

Warning: Flammable liquids

· Danger code (Kemler):

33

· EMS Number:

F-E,S-D

· Stowage Category

E

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1090 ACETONE SOLUTION, 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 8)

· Section 313 (Specific toxic chemical listings):

117-81-7 di-(2-ethylhexyl) phthalate

· TSCA (Toxic Substances Control Act):

67-64-1 acetone

ACTIVE

117-81-7 di-(2-ethylhexyl) phthalate

ACTIVE

103-23-1 Di-(2-ethylhexyl) adipate

ACTIVE

· Hazardous Air Pollutants

117-81-7 di-(2-ethylhexyl) phthalate

· Proposition 65
· Chemicals known to cause cancer:

117-81-7 di-(2-ethylhexyl) phthalate

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

117-81-7 di-(2-ethylhexyl) phthalate

· Chemicals known to cause developmental toxicity:

117-81-7 di-(2-ethylhexyl) phthalate

· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1 acetone

I

117-81-7 di-(2-ethylhexyl) phthalate

B2

103-23-1 Di-(2-ethylhexyl) adipate

C

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

117-81-7 di-(2-ethylhexyl) phthalate

A3

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

117-81-7 di-(2-ethylhexyl) phthalate

· 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.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 05/29/2019 / 2

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Phthalate and Adipate Sample (1X2 mL)

(Contd. of page 9)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

1 Identification

- **Product identifier**
- **Trade name:** QualityCheck WS Herbicides Sample (1X2 mL)
- **Part number:** QCM-501
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

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



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
tert-butyl methyl ether
- **Hazard statements**
Highly flammable liquid and vapor.
Harmful in contact with skin.
Causes skin irritation.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 1)

Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

1634-04-4	tert-butyl methyl ether	99.906%
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4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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

· **Information for doctor:**

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

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 2)

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

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** 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.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

1634-04-4	tert-butyl methyl ether	50 ppm
94-75-7	2,4-D (ISO)	30 mg/m ³
93-72-1	silvex (2,4,5-TP)	0.82 mg/m ³
88-85-7	dinoseb	0.41 mg/m ³
87-86-5	pentachlorophenol	1 mg/m ³

· PAC-2:

1634-04-4	tert-butyl methyl ether	570 ppm
94-75-7	2,4-D (ISO)	94 mg/m ³
93-72-1	silvex (2,4,5-TP)	9 mg/m ³
88-85-7	dinoseb	4.5 mg/m ³
87-86-5	pentachlorophenol	15 mg/m ³

· PAC-3:

1634-04-4	tert-butyl methyl ether	5300* ppm
94-75-7	2,4-D (ISO)	500 mg/m ³
93-72-1	silvex (2,4,5-TP)	130 mg/m ³
88-85-7	dinoseb	5.4 mg/m ³

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 3)

87-86-5 pentachlorophenol

150 mg/m³**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

Components with limit values that require monitoring at the workplace:**1634-04-4 tert-butyl methyl ether**TLV Long-term value: 180 mg/m³, 50 ppm

- **Additional information:** The lists that were valid during the creation 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.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
- **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 4)

- **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
 - Color:** Colorless
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range:** Undetermined.
 - Boiling point/Boiling range:** 55.2 °C (131.4 °F)
- **Flash point:** 0 °C (32 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 374 °C (705.2 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
 - Lower:** 1.6 Vol %
 - Upper:** 8.4 Vol %
- **Vapor pressure at 20 °C (68 °F):** 279 hPa (209.3 mm Hg)
- **Density at 20 °C (68 °F):** 0.74 g/cm³ (6.1753 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - Water at 25 °C (77 °F):** 51 g/l
- **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 5)

· Viscosity:	
Dynamic at 20 °C (68 °F):	0.27 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.9 %
VOC content:	99.91 %
	999.1 g/l / 8.34 lb/gal
Solids content:	0.1 %
· Other information	No further relevant information available.

10 Stability and reactivity

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

11 Toxicological information

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

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

Oral	LD50	4,004 mg/kg (rat)
Dermal	LD50	1,001 mg/kg (rabbit)

1634-04-4 tert-butyl methyl ether

Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23,576 mg/L (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1634-04-4 tert-butyl methyl ether

3

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 6)

94-75-7	2,4-D (ISO)	2B
1918-02-1	4-amino-3,5,6-trichloropyridine-2-carboxylic acid	3
87-86-5	pentachlorophenol	2B

· NTP (National Toxicology Program)

87-86-5	pentachlorophenol	R
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|-----------------------------|
| · UN-Number | |
| · DOT, IMDG, IATA | UN2350 |
| · UN proper shipping name | |
| · DOT | Butyl methyl ether solution |
| · IMDG, IATA | BUTYL METHYL ETHER solution |

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 7)

· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids

· Label

3

· Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

Not applicable.

· 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/73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 2350 BUTYL METHYL ETHER SOLUTION, 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

88-85-7 dinoseb

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 8)

· Section 313 (Specific toxic chemical listings):

1634-04-4	tert-butyl methyl ether
94-75-7	2,4-D (ISO)
1918-00-9	dicamba(ISO)
1918-02-1	4-amino-3,5,6-trichloropyridine-2-carboxylicacid
88-85-7	dinoseb
87-86-5	pentachlorophenol

· TSCA (Toxic Substances Control Act):

1634-04-4	tert-butyl methyl ether	ACTIVE
50594-66-6	5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid	ACTIVE
94-75-7	2,4-D (ISO)	ACTIVE
75-99-0	2,2-dichloropropionic acid	ACTIVE
1918-02-1	4-amino-3,5,6-trichloropyridine-2-carboxylicacid	ACTIVE
88-85-7	dinoseb	ACTIVE
87-86-5	pentachlorophenol	ACTIVE

· Hazardous Air Pollutants

1634-04-4	tert-butyl methyl ether
94-75-7	2,4-D (ISO)
87-86-5	pentachlorophenol

· Proposition 65
· Chemicals known to cause cancer:

87-86-5	pentachlorophenol
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

88-85-7	dinoseb
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· Chemicals known to cause developmental toxicity:

88-85-7	dinoseb
---------	---------

· Carcinogenic categories
· EPA (Environmental Protection Agency)

93-72-1	silvex (2,4,5-TP)	D
88-85-7	dinoseb	D
87-86-5	pentachlorophenol	L

· TLV (Threshold Limit Value established by ACGIH)

1634-04-4	tert-butyl methyl ether	A3
94-75-7	2,4-D (ISO)	A4
75-99-0	2,2-dichloropropionic acid	A4
1918-02-1	4-amino-3,5,6-trichloropyridine-2-carboxylicacid	A4
87-86-5	pentachlorophenol	A3

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

None of the ingredients is listed.

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/29/2019

Version Number 3

Reviewed on 04/29/2019

Trade name: QualityCheck WS Herbicides Sample (1X2 mL)

(Contd. of page 9)

· **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.

· **Department issuing SDS:** Document Control / Regulatory· **Contact:** regulatory@ultrasci.com· **Date of preparation / last revision** 05/29/2019 / 2· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

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

US