

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/01/2019

Version Number 3

Reviewed on 04/01/2019

1 Identification

- **Product identifier**
- **Trade name:** VOC Standard (1X1 mL)
- **Part number:** PMX-220-1
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 1A H360 May damage fertility or the unborn child.

STOT SE 1 H370 Causes damage to organs.

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



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

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

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Hazard pictograms

GHS02 GHS06 GHS07 GHS08

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

methanol
1,2-dibromo-3-chloropropane
acrylonitrile
1,2-dibromoethane

Hazard statements

Highly flammable liquid and vapor.
Toxic if inhaled.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe 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.
Contaminated work clothing must not be allowed out of the workplace.
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 or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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.

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- **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	96.714%
107-13-1	acrylonitrile	0.253%
75-15-0	carbon disulphide	0.253%
108-10-1	4-methylpentan-2-one	0.253%
591-78-6	hexan-2-one	0.253%
75-27-4	bromodichloromethane	0.253%
67-66-3	trichloromethane	0.253%
96-12-8	1,2-dibromo-3-chloropropane	0.253%
106-93-4	1,2-dibromoethane	0.253%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Remove breathing 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.

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- **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
75-05-8	acetonitrile	13 ppm
107-13-1	acrylonitrile	0.15 ppm
75-15-0	carbon disulphide	13 ppm
67-64-1	acetone	200 ppm
78-93-3	butanone	200 ppm
108-10-1	4-methylpentan-2-one	75 ppm
591-78-6	hexan-2-one	10 ppm
75-27-4	bromodichloromethane	1.3 mg/m ³
75-25-2	bromoform	1.5 ppm
67-66-3	trichloromethane	2 ppm
124-48-1	dibromochloromethane	1.1 mg/m ³
96-12-8	1,2-dibromo-3-chloropropane	0.003 ppm
106-93-4	1,2-dibromoethane	17 ppm

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· PAC-2:		
67-56-1	methanol	2,100 ppm
75-05-8	acetonitrile	50 ppm
107-13-1	acrylonitrile	1.7 ppm
75-15-0	carbon disulphide	160 ppm
67-64-1	acetone	3200* ppm
78-93-3	butanone	2700* ppm
108-10-1	4-methylpentan-2-one	500 ppm
591-78-6	hexan-2-one	830 ppm
75-27-4	bromodichloromethane	14 mg/m ³
75-25-2	bromoform	6.8 ppm
67-66-3	trichloromethane	64 ppm
124-48-1	dibromochloromethane	12 mg/m ³
96-12-8	1,2-dibromo-3-chloropropane	2.2 ppm
106-93-4	1,2-dibromoethane	24 ppm

· PAC-3:		
67-56-1	methanol	7200* ppm
75-05-8	acetonitrile	150 ppm
107-13-1	acrylonitrile	28 ppm
75-15-0	carbon disulphide	480 ppm
67-64-1	acetone	5700* ppm
78-93-3	butanone	4000* ppm
108-10-1	4-methylpentan-2-one	3000* ppm
591-78-6	hexan-2-one	5000* ppm
75-27-4	bromodichloromethane	85 mg/m ³
75-25-2	bromoform	41 ppm
67-66-3	trichloromethane	3,200 ppm
124-48-1	dibromochloromethane	73 mg/m ³
96-12-8	1,2-dibromo-3-chloropropane	4.3 ppm
106-93-4	1,2-dibromoethane	46 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.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep 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

107-13-1 acrylonitrile

PEL	Long-term value: 2 ppm Ceiling limit value: 10 ppm Skin; see 29 CFR 1910.1045
REL	Long-term value: 1 ppm Ceiling limit value: 10* ppm *15-min; Skin; See Pocket Guide App. A
TLV	Long-term value: 4.3 mg/m ³ , 2 ppm Skin

75-15-0 carbon disulphide

PEL	Long-term value: 20 ppm Ceiling limit value: 30; 100* ppm *30-min peak per 8-hr shift
REL	Short-term value: 30 mg/m ³ , 10 ppm Long-term value: 3 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 3.13 mg/m ³ , 1 ppm Skin, BEI

108-10-1 4-methylpentan-2-one

PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 82 mg/m ³ , 20 ppm BEI

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591-78-6 hexan-2-one

PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 4 mg/m ³ , 1 ppm
TLV	Short-term value: 40 mg/m ³ , 10 ppm Long-term value: 20 mg/m ³ , 5 ppm Skin, BEI

67-66-3 trichloromethane

PEL	Ceiling limit value: 240 mg/m ³ , 50 ppm
REL	Short-term value: 9.78* mg/m ³ , 2* ppm *60-min; See Pocket Guide App. A
TLV	Long-term value: 49 mg/m ³ , 10 ppm

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

PEL	Long-term value: 0.001 ppm see 29 CFR 1910.1044
REL	See Pocket Guide App. A

106-93-4 1,2-dibromoethane

PEL	Long-term value: 20 ppm Ceiling limit value: 30; 50* ppm *5-min peak per 8-hr shift
REL	Long-term value: 0.045 ppm Ceiling limit value: 0.13* ppm *15-min; See Pocket Guide App. A
TLV	Skin

· 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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75-15-0 carbon disulphide

BEI	0.5 mg/g creatinine Medium: urine Time: end of shift Parameter: 2-Thioxothiazolidine-4-carboxylic acid (background, nonspecific)
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108-10-1 4-methylpentan-2-one

BEI	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
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591-78-6 hexan-2-one

BEI	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis
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· **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- **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)

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· 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):	0.82215 g/cm ³ (6.86084 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:	98.0 %
VOC content:	97.72 %
	803.4 g/l / 6.71 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)		
Oral	LD50	10,909 mg/kg

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Dermal	LD50	18,755 mg/kg
Inhalative	LC50/4 h	3.07 mg/L
67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
107-13-1 acrylonitrile		
Oral	LD50	82 mg/kg (rat)
Dermal	LD50	226 mg/kg (rabbit)
Inhalative	LC50/4 h	2.09 mg/L (rat)
75-15-0 carbon disulphide		
Oral	LD50	1,200 mg/kg (rat)
Inhalative	LC50/4 h	10.35 mg/L (rat)
108-10-1 4-methylpentan-2-one		
Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab) >16,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>8.2 mg/L (rat)
591-78-6 hexan-2-one		
Oral	LD50	2,590 mg/kg (rat)
Dermal	LD50	4,800 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/L (rat)
75-27-4 bromodichloromethane		
Oral	LD50	450 mg/kg (mouse)
67-66-3 trichloromethane		
Oral	LD50	908 mg/kg (rat)
Dermal	LD50	75 mg/kg (rat) >20,000 mg/kg (rabbit)
96-12-8 1,2-dibromo-3-chloropropane		
Oral	LD50	170 mg/kg (rat)
Dermal	LD50	1,420 mg/kg (rat) 1,400 mg/kg (rabbit)
106-93-4 1,2-dibromoethane		
Oral	LD50	108 mg/kg (rat) 55 mg/kg (rabbit)
Dermal	LD50	300 mg/kg (rabbit)

- **Primary irritant effect:**

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

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

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

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

Toxic

Irritant

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The product can cause inheritable damage.

- **Carcinogenic categories**

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

107-13-1	acrylonitrile	2B
108-10-1	4-methylpentan-2-one	2B
75-27-4	bromodichloromethane	2B
75-25-2	bromoform	3
67-66-3	trichloromethane	2B
124-48-1	dibromochloromethane	3
96-12-8	1,2-dibromo-3-chloropropane	2B
106-93-4	1,2-dibromoethane	2A

- **NTP (National Toxicology Program)**

107-13-1	acrylonitrile	R
75-27-4	bromodichloromethane	R
67-66-3	trichloromethane	R
96-12-8	1,2-dibromo-3-chloropropane	R
106-93-4	1,2-dibromoethane	R

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

107-13-1	acrylonitrile	
96-12-8	1,2-dibromo-3-chloropropane	

12 Ecological information

- **Toxicity**

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

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

- **Behavior in environmental systems:**

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

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

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

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

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- **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.

 · **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.

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· 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):

107-13-1	acrylonitrile
75-15-0	carbon disulphide
67-66-3	trichloromethane

· Section 313 (Specific toxic chemical listings):

67-56-1	methanol
75-05-8	acetonitrile
107-13-1	acrylonitrile
75-15-0	carbon disulphide
78-93-3	butanone
108-10-1	4-methylpentan-2-one
75-27-4	bromodichloromethane
75-25-2	bromoform
67-66-3	trichloromethane
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· TSCA new (21st Century Act): (Substances not listed)

591-78-6	hexan-2-one
75-27-4	bromodichloromethane
96-12-8	1,2-dibromo-3-chloropropane

· Proposition 65
· Chemicals known to cause cancer:

107-13-1	acrylonitrile
108-10-1	4-methylpentan-2-one

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75-27-4	bromodichloromethane
75-25-2	bromoform
67-66-3	trichloromethane
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane

· Chemicals known to cause reproductive toxicity for females:

75-15-0	carbon disulphide
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· Chemicals known to cause reproductive toxicity for males:

75-15-0	carbon disulphide
591-78-6	hexan-2-one
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
75-15-0	carbon disulphide
108-10-1	4-methylpentan-2-one
591-78-6	hexan-2-one
67-66-3	trichloromethane
106-93-4	1,2-dibromoethane

· Carcinogenic categories
· EPA (Environmental Protection Agency)

75-05-8	acetonitrile	CBD, D
107-13-1	acrylonitrile	B1
67-64-1	acetone	I
78-93-3	butanone	I
108-10-1	4-methylpentan-2-one	I
591-78-6	hexan-2-one	II
75-27-4	bromodichloromethane	B2
75-25-2	bromoform	B2
67-66-3	trichloromethane	B2, L, NL
124-48-1	dibromochloromethane	C
106-93-4	1,2-dibromoethane	L

· TLV (Threshold Limit Value established by ACGIH)

75-05-8	acetonitrile	A4
107-13-1	acrylonitrile	A3
75-15-0	carbon disulphide	A4
67-64-1	acetone	A4
75-25-2	bromoform	A3
67-66-3	trichloromethane	A3
106-93-4	1,2-dibromoethane	A3

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Safety Data Sheet

acc. to OSHA HCS

Printing date 04/01/2019

Version Number 3

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Trade name: VOC Standard (1X1 mL)

(Contd. of page 14)

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
107-13-1	acrylonitrile
67-66-3	trichloromethane
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane

· National regulations:
· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

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

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

16 Other information

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

· Date of preparation / last revision 04/01/2019 / 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

Skin Sens. 1: Skin sensitisation – Category 1

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

Carc. 1B: Carcinogenicity – Category 1B

Repr. 1A: Reproductive toxicity – Category 1A

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· * Data compared to the previous version altered.