

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

1 Identification

- **Product identifier**
- **Trade name:** Volatiles Standard (1X1 mL)
- **Part number:** PMX-130-1
- **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

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 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (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	99.064%
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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 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (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
75-15-0	carbon disulphide	13 ppm
124-48-1	dibromochloromethane	1.1 mg/m ³
95-50-1	1,2-dichlorobenzene	50 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
106-46-7	1,4-dichlorobenzene	30 ppm

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 3)

110-57-6	trans-2,3-dichlorobut-2-ene	0.078 ppm
156-60-5	trans-dichloroethylene	280 ppm
75-34-3	1,1-dichloroethane	300 ppm
75-35-4	1,1-dichloroethylene	45 ppm
74-88-4	methyl iodide	25 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
108-38-3	m-xylene	130 ppm
79-00-5	1,1,2-trichloroethane	30 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
75-27-4	bromodichloromethane	1.3 mg/m ³
64-17-5	ethanol	1,800 ppm

· PAC-2:

67-56-1	methanol	2,100 ppm
75-25-2	bromoform	6.8 ppm
67-66-3	trichloromethane	64 ppm
75-15-0	carbon disulphide	160 ppm
124-48-1	dibromochloromethane	12 mg/m ³
95-50-1	1,2-dichlorobenzene	170 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
110-57-6	trans-2,3-dichlorobut-2-ene	0.86 ppm
156-60-5	trans-dichloroethylene	1,000 ppm
75-34-3	1,1-dichloroethane	670 ppm
75-35-4	1,1-dichloroethylene	500 ppm
74-88-4	methyl iodide	50 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
108-38-3	m-xylene	920 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
127-18-4	tetrachloroethylene	230 ppm
71-43-2	benzene	800 ppm

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 4)

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
75-27-4	bromodichloromethane	14 mg/m ³
64-17-5	ethanol	3300* ppm

· PAC-3:

67-56-1	methanol	7200* ppm
75-25-2	bromoform	41 ppm
67-66-3	trichloromethane	3,200 ppm
75-15-0	carbon disulphide	480 ppm
124-48-1	dibromochloromethane	73 mg/m ³
95-50-1	1,2-dichlorobenzene	1,000 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
110-57-6	trans-2,3-dichlorobut-2-ene	3.8 ppm
156-60-5	trans-dichloroethylene	1,700 ppm
75-34-3	1,1-dichloroethane	4,000 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
74-88-4	methyl iodide	125 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
108-38-3	m-xylene	2500* ppm
79-00-5	1,1,2-trichloroethane	500 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

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

		(Contd. of page 5)
75-27-4	bromodichloromethane	85 mg/m ³
64-17-5	ethanol	15000* 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.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 6)

- **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 8)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 7)

· 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):	0.80451 g/cm ³ (6.71364 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:	99.47 %
	800.2 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	3.03 mg/L

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 8)

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
95-50-1	1,2-dichlorobenzene	3
541-73-1	1,3-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
110-57-6	trans-2,3-dichlorobut-2-ene	3
75-35-4	1,1-dichloroethylene	3
74-88-4	methyl iodide	3
79-34-5	1,1,2,2-tetrachloroethane	2B
95-47-6	o-xylene	3
108-38-3	m-xylene	3
106-42-3	p-xylene	3
79-00-5	1,1,2-trichloroethane	3
127-18-4	tetrachloroethylene	2A
71-43-2	benzene	1
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
75-27-4	bromodichloromethane	2B
64-17-5	ethanol	1
108-10-1	4-methylpentan-2-one	2B

- **NTP (National Toxicology Program)**

67-66-3	trichloromethane	R
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(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 9)

106-46-7	1,4-dichlorobenzene	R
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
75-27-4	bromodichloromethane	R

· OSHA-Ca (Occupational Safety & Health Administration)

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 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

- **Not Regulated, De minimus Quantities** -
- **UN-Number**
- **DOT, IMDG, IATA** UN1992

(Contd. on page 11)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 10)

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

Flammable liquids, toxic, n.o.s. (Methanol)
 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)

· **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 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 11)

· 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):

67-66-3	trichloromethane
75-15-0	carbon disulphide
110-57-6	trans-2,3-dichlorobut-2-ene
75-34-3	1,1-dichloroethane

· Section 313 (Specific toxic chemical listings):

67-56-1	methanol
75-25-2	bromoform
67-66-3	trichloromethane
75-15-0	carbon disulphide
10061-02-6	trans-1,3-dichloropropene
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
110-57-6	trans-2,3-dichlorobut-2-ene
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
74-88-4	methyl iodide
79-34-5	1,1,2,2-tetrachloroethane
95-47-6	o-xylene
108-38-3	m-xylene
106-42-3	p-xylene
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

(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 12)

71-55-6	1,1,1-trichloroethane
78-87-5	1,2-dichloropropane
79-01-6	trichloroethylene
108-90-7	chlorobenzene
75-27-4	bromodichloromethane

· TSCA (Toxic Substances Control Act):

67-56-1	methanol
75-25-2	bromoform
67-66-3	trichloromethane
75-15-0	carbon disulphide
124-48-1	dibromochloromethane
10061-02-6	trans-1,3-dichloropropene
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
110-57-6	trans-2,3-dichlorobut-2-ene
156-60-5	trans-dichloroethylene
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
74-88-4	methyl iodide
79-34-5	1,1,2,2-tetrachloroethane
95-47-6	o-xylene
108-38-3	m-xylene
106-42-3	p-xylene
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

· Proposition 65
· Chemicals known to cause cancer:

75-25-2	bromoform
67-66-3	trichloromethane
106-46-7	1,4-dichlorobenzene

(Contd. on page 14)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 13)

75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
74-88-4	methyl iodide
79-34-5	1,1,2,2-tetrachloroethane
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
75-27-4	bromodichloromethane
108-10-1	4-methylpentan-2-one

· 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
71-43-2	benzene
79-01-6	trichloroethylene
591-78-6	hexan-2-one

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
67-66-3	trichloromethane
75-15-0	carbon disulphide
71-43-2	benzene
108-88-3	toluene
79-01-6	trichloroethylene
64-17-5	ethanol
108-10-1	4-methylpentan-2-one
591-78-6	hexan-2-one

· Carcinogenic categories
· EPA (Environmental Protection Agency)

75-25-2	bromoform	B2
67-66-3	trichloromethane	B2, L, NL
124-48-1	dibromochloromethane	C
95-50-1	1,2-dichlorobenzene	D
541-73-1	1,3-dichlorobenzene	D
156-60-5	trans-dichloroethylene	II

(Contd. on page 15)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 14)

75-34-3	1,1-dichloroethane	C
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
79-34-5	1,1,2,2-tetrachloroethane	L
95-47-6	o-xylene	I
108-38-3	m-xylene	I
106-42-3	p-xylene	I
79-00-5	1,1,2-trichloroethane	C
127-18-4	tetrachloroethylene	L
71-43-2	benzene	A, K/L
108-88-3	toluene	II
100-41-4	ethylbenzene	D
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
75-27-4	bromodichloromethane	B2
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

· TLV (Threshold Limit Value established by ACGIH)

75-25-2	bromoform	A3
67-66-3	trichloromethane	A3
75-15-0	carbon disulphide	A4
95-50-1	1,2-dichlorobenzene	A4
106-46-7	1,4-dichlorobenzene	A3
75-34-3	1,1-dichloroethane	A4
75-35-4	1,1-dichloroethylene	A4
79-34-5	1,1,2,2-tetrachloroethane	A3
95-47-6	o-xylene	A4
108-38-3	m-xylene	A4
106-42-3	p-xylene	A4
79-00-5	1,1,2-trichloroethane	A3
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

(Contd. on page 16)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 15)

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
64-17-5	ethanol	A3
67-64-1	acetone	A4

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

67-66-3	trichloromethane
106-46-7	1,4-dichlorobenzene
75-35-4	1,1-dichloroethylene
74-88-4	methyl iodide
79-34-5	1,1,2,2-tetrachloroethane
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

· 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** 03/30/2019 / 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

(Contd. on page 17)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

Trade name: Volatiles Standard (1X1 mL)

(Contd. of page 16)

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.**

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