

Safety Data Sheet acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/29/2019

1 Identification

- **Product identifier**
- **Trade name:** Calibration Standard (1X1 mL)
- **Part number:** DWM-535-1
- **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

Carc. 1B H350 May cause cancer.

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

STOT SE 1 H370 Causes damage to organs.



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).

- **Hazard pictograms**



GHS02



GHS06



GHS07



GHS08

- **Signal word** Danger

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· Hazard-determining components of labeling:

methanol
 1,2-dibromoethane
 1,2,3-trichloropropane
 (Z)-1,3-dichloropropene
 trans-1,3-dichloropropene

· Hazard statements

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

· 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).
 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.

· Classification system:
· NFPA ratings (scale 0 - 4)


Health = 1
 Fire = 3
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)


Health = *1
 Fire = 3
 Reactivity = 0

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- **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	94.438%
75-27-4	bromodichloromethane	0.253%
106-93-4	1,2-dibromoethane	0.253%
10061-01-5	(Z)-1,3-dichloropropene	0.253%
10061-02-6	trans-1,3-dichloropropene	0.253%
100-41-4	ethylbenzene	0.253%
98-82-8	cumene	0.253%
100-42-5	styrene	0.253%
630-20-6	1,1,1,2-Tetrachloroethane	0.253%
71-55-6	1,1,1-trichloroethane	0.253%
96-18-4	1,2,3-trichloropropane	0.253%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
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

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- **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
108-86-1	bromobenzene	0.96 ppm
74-97-5	bromochloromethane	600 ppm
75-27-4	bromodichloromethane	1.3 mg/m ³
104-51-8	butylbenzene	3.6 ppm
95-49-8	2-chlorotoluene	75 ppm
106-43-4	4-chlorotoluene	1.2 ppm
106-93-4	1,2-dibromoethane	17 ppm
74-95-3	dibromomethane	3 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
156-59-2	cis-dichloroethylene	140 ppm
142-28-9	1,3-dichloropropane	5.4 ppm
563-58-6	1,1-dichloropropene	1.3 ppm
100-41-4	ethylbenzene	33 ppm
98-82-8	cumene	50 ppm
100-42-5	styrene	20 ppm
630-20-6	1,1,1,2-Tetrachloroethane	0.2 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
96-18-4	1,2,3-trichloropropane	0.015 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
108-86-1	bromobenzene	11 ppm

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74-97-5	bromochloromethane	830 ppm
75-27-4	bromodichloromethane	14 mg/m ³
104-51-8	butylbenzene	40 ppm
95-49-8	2-chlorotoluene	310 ppm
106-43-4	4-chlorotoluene	13 ppm
106-93-4	1,2-dibromoethane	24 ppm
74-95-3	dibromomethane	33 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
156-59-2	cis-dichloroethylene	500 ppm
142-28-9	1,3-dichloropropane	59 ppm
563-58-6	1,1-dichloropropene	15 ppm
100-41-4	ethylbenzene	1100* ppm
98-82-8	cumene	300 ppm
100-42-5	styrene	130 ppm
630-20-6	1,1,1,2-Tetrachloroethane	2.2 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
96-18-4	1,2,3-trichloropropane	170 ppm

PAC-3:

67-56-1	methanol	7200* ppm
108-86-1	bromobenzene	240 ppm
74-97-5	bromochloromethane	5,000 ppm
75-27-4	bromodichloromethane	85 mg/m ³
104-51-8	butylbenzene	240 ppm
95-49-8	2-chlorotoluene	1,800 ppm
106-43-4	4-chlorotoluene	80 ppm
106-93-4	1,2-dibromoethane	46 ppm
74-95-3	dibromomethane	200 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
156-59-2	cis-dichloroethylene	850 ppm
142-28-9	1,3-dichloropropane	350 ppm
563-58-6	1,1-dichloropropene	87 ppm
100-41-4	ethylbenzene	1800* ppm
98-82-8	cumene	730 ppm
100-42-5	styrene	1100* ppm
630-20-6	1,1,1,2-Tetrachloroethane	13 ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
96-18-4	1,2,3-trichloropropane	1,000 ppm

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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

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

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm

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TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI
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98-82-8 cumene

PEL	Long-term value: 245 mg/m ³ , 50 ppm Skin
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REL	Long-term value: 245 mg/m ³ , 50 ppm Skin
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TLV	Long-term value: (246) NIC-0.5 mg/m ³ , (50) NIC-0.1 ppm NIC-A3
-----	---

100-42-5 styrene

PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
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REL	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
-----	--

TLV	Short-term value: (170) mg/m ³ , (40) ppm Long-term value: (85) NIC-8.5 mg/m ³ , (20) NIC-2 ppm BEI, NIC-A3, NIC-OTO
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630-20-6 1,1,1,2-Tetrachloroethane

REL	Handle with caution; See Pocket Guide App. C
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71-55-6 1,1,1-trichloroethane

PEL	Long-term value: 1900 mg/m ³ , 350 ppm
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REL	Ceiling limit value: 1900* mg/m ³ , 350* ppm *15-min; See Pocket Guide App. C
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TLV	Short-term value: 2460 mg/m ³ , 450 ppm Long-term value: 1910 mg/m ³ , 350 ppm BEI
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96-18-4 1,2,3-trichloropropane

PEL	Long-term value: 300 mg/m ³ , 50 ppm
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REL	Long-term value: 60 mg/m ³ , 10 ppm Skin, See Pocket Guide App. A
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TLV	Long-term value: 0.03 mg/m ³ , 0.005 ppm
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· 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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100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
-	Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

100-42-5 styrene

BEI	400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)
	0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (semi-quantitative)

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

BEI	40 ppm Medium: end-exhaled air Time: prior to last shift of workweek Parameter: Methyl chloroform
	10 mg/L Medium: urine Time: end of workweek Parameter: Trichloroacetic acid (nonspecific, semi-quantitative)
	30 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Total trichloroethanol (nonspecific, semi-quantitative)
	1 mg/L Medium: blood Time: end of shift at end of workweek Parameter: Total trichloroethanol (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

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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:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range:	Undetermined.
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)

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· Density at 20 °C (68 °F):	0.83048 g/cm ³ (6.93036 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:	96.7 %
VOC content:	96.46 %
	801.1 g/l / 6.69 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	10,933 mg/kg
Dermal	LD50	39,557 mg/kg
Inhalative	LC50/4 h	3.17 mg/L

67-56-1 methanol

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

75-27-4 bromodichloromethane

Oral	LD50	450 mg/kg (mouse)
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106-93-4 1,2-dibromoethane		
Oral	LD50	108 mg/kg (rat) 55 mg/kg (rabbit)
Dermal	LD50	300 mg/kg (rabbit)
95-50-1 1,2-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
10061-01-5 (Z)-1,3-dichloropropene		
Oral	LD50	250 mg/kg (rat)
10061-02-6 trans-1,3-dichloropropene		
Oral	LD50	250 mg/kg (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,354 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/L (rat)
98-82-8 cumene		
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/L (mouse)
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11.8 mg/L (rat)
630-20-6 1,1,1,2-Tetrachloroethane		
Oral	LD50	670 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	2,100 mg/L (rat)
71-55-6 1,1,1-trichloroethane		
Oral	LD50	10,300 mg/kg (rat)
96-18-4 1,2,3-trichloropropane		
Oral	LD50	152 mg/kg (rat)
Dermal	LD50	523 mg/kg (rabbit)
Inhalative	LC50/4 h	4,800 mg/L (rat)

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

75-27-4	bromodichloromethane	2B
106-93-4	1,2-dibromoethane	2A
95-50-1	1,2-dichlorobenzene	3
541-73-1	1,3-dichlorobenzene	3
100-41-4	ethylbenzene	2B
98-82-8	cumene	2B
100-42-5	styrene	2B
630-20-6	1,1,1,2-Tetrachloroethane	2B
71-55-6	1,1,1-trichloroethane	3
96-18-4	1,2,3-trichloropropane	2A
106-42-3	p-xylene	3

· NTP (National Toxicology Program)

75-27-4	bromodichloromethane	R
106-93-4	1,2-dibromoethane	R
98-82-8	cumene	R
100-42-5	styrene	R
96-18-4	1,2,3-trichloropropane	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 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.

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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 · 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):	Warning: Flammable liquids 336

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· 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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-56-1	methanol
75-27-4	bromodichloromethane
106-93-4	1,2-dibromoethane
74-95-3	dibromomethane
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
10061-02-6	trans-1,3-dichloropropene
100-41-4	ethylbenzene
98-82-8	cumene
100-42-5	styrene
630-20-6	1,1,1,2-Tetrachloroethane
71-55-6	1,1,1-trichloroethane
96-18-4	1,2,3-trichloropropane
106-42-3	p-xylene

· TSCA (Toxic Substances Control Act):

67-56-1	methanol
108-86-1	bromobenzene
74-97-5	bromochloromethane
75-27-4	bromodichloromethane

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104-51-8	butylbenzene
95-49-8	2-chlorotoluene
106-43-4	4-chlorotoluene
106-93-4	1,2-dibromoethane
74-95-3	dibromomethane
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
156-59-2	cis-dichloroethylene
142-28-9	1,3-dichloropropane
10061-02-6	trans-1,3-dichloropropene
100-41-4	ethylbenzene
98-82-8	cumene
100-42-5	styrene
630-20-6	1,1,1,2-Tetrachloroethane
71-55-6	1,1,1-trichloroethane
96-18-4	1,2,3-trichloropropane
106-42-3	p-xylene

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

75-27-4	bromodichloromethane
10061-01-5	(Z)-1,3-dichloropropene
10061-02-6	trans-1,3-dichloropropene

· Proposition 65
· Chemicals known to cause cancer:

75-27-4	bromodichloromethane
106-93-4	1,2-dibromoethane
100-41-4	ethylbenzene
98-82-8	cumene
100-42-5	styrene
630-20-6	1,1,1,2-Tetrachloroethane
96-18-4	1,2,3-trichloropropane

· 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
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· Chemicals known to cause developmental toxicity:

67-56-1	methanol
106-93-4	1,2-dibromoethane

· Carcinogenic categories
· EPA (Environmental Protection Agency)

108-86-1	bromobenzene	II
74-97-5	bromochloromethane	D

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75-27-4	bromodichloromethane	B2
106-93-4	1,2-dibromoethane	L
95-50-1	1,2-dichlorobenzene	D
541-73-1	1,3-dichlorobenzene	D
156-59-2	cis-dichloroethylene	II
100-41-4	ethylbenzene	D
98-82-8	cumene	D, CBD
630-20-6	1,1,1,2-Tetrachloroethane	C
71-55-6	1,1,1-trichloroethane	II
96-18-4	1,2,3-trichloropropane	L
106-42-3	p-xylene	I

· TLV (Threshold Limit Value established by ACGIH)

106-93-4	1,2-dibromoethane	A3
95-50-1	1,2-dichlorobenzene	A4
100-41-4	ethylbenzene	A3
100-42-5	styrene	A4
71-55-6	1,1,1-trichloroethane	A4
96-18-4	1,2,3-trichloropropane	A3
106-42-3	p-xylene	A4

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

106-93-4	1,2-dibromoethane
96-18-4	1,2,3-trichloropropane

· 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 03/29/2019 / 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)

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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
Carc. 1B: Carcinogenicity – Category 1B
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

US