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1 Identification

· Product identifier

· Trade name: VOC Standard (1X1 mL)

- · Part number: DWM-635-1
- · 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. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging 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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(Contd. of page 1) · Hazard pictograms GHS02 GHS06 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: methanol benzene carbon tetrachloride trichloromethane · Hazard statements Highly flammable liquid and vapor. Toxic if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. Suspected of damaging 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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(Contd. of page 2) · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH ^{*1} Health = *1 FIRE 3 Fire = 3**REACTIVITY O** 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	96.9664%	
71-43-2	benzene	0.253%	
75-27-4	bromodichloromethane	0.253%	
56-23-5	carbon tetrachloride	0.253%	
67-66-3	trichloromethane	0.253%	
106-46-7	1,4-dichlorobenzene	0.253%	
107-06-2	1,2-dichloroethane	0.253%	
71-55-6	1,1,1-trichloroethane	0.253%	
79-01-6	trichloroethylene	0.253%	
75-01-4	vinyl chloride	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.

 \cdot 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.

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· After swallowing: If symptoms persist consult doctor.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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
71-43-2	benzene	52 ppm
75-27-4	bromodichloromethane	1.3 mg/m ³
75-25-2	bromoform	1.5 ppm
56-23-5	carbon tetrachloride	1.2 ppm
67-66-3	-3 trichloromethane	
124-48-1	dibromochloromethane	1.1 mg/m ³
106-46-7	1,4-dichlorobenzene	30 ppm
107-06-2	1,2-dichloroethane	50 ppm
75-35-4	1,1-dichloroethylene	45 ppm
	1,1,1-trichloroethane	230 ppm
79-01-6	trichloroethylene	130 ppm
75-01-4	vinyl chloride	250 ppm
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PAC-2:		(Contd. of page
	methanol	2,100 ppn
	benzene	800 ppm
	bromodichloromethane	14 mg/m ³
	bromoform	6.8 ppm
	carbon tetrachloride	13 ppm
	trichloromethane	64 ppm
	dibromochloromethane	12 mg/m ³
106-46-7	1,4-dichlorobenzene	170 ppm
	1,2-dichloroethane	200 ppm
75-35-4	1,1-dichloroethylene	500 ppm
	1,1,1-trichloroethane	600 ppm
79-01-6	trichloroethylene	450 ppm
	vinyl chloride	1,200 ppr
PAC-3:		
	methanol	7200* ppr
71-43-2	benzene	4000* ppr
75-27-4	bromodichloromethane	85 mg/m ³
75-25-2	bromoform	41 ppm
56-23-5	carbon tetrachloride	340 ppm
67-66-3	trichloromethane	3,200 ppn
124-48-1	dibromochloromethane	73 mg/m ³
106-46-7	1,4-dichlorobenzene	1,000 ppn
107-06-2	1,2-dichloroethane	300 ppm
75-35-4	1,1-dichloroethylene	1,000 ppn
71-55-6	1,1,1-trichloroethane	4,200 ppn
79-01-6	trichloroethylene	3,800 ppm
75-01-4	vinyl chloride	4800* ppr

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.

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· 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

67-50	6-1 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/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI 	
71-43	3-2 benzene	
PEL	Short-term value: 15* mg/m ³ , 5* ppm Long-term value: 3* mg/m ³ , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)	
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A	
TLV	Short-term value: 8 mg/m ³ , 2.5 ppm Long-term value: 1.6 mg/m ³ , 0.5 ppm Skin; BEI	
56-23	3-5 carbon tetrachloride	
PEL	Long-term value: 10 ppm Ceiling limit value: 25; 200* ppm *5-min peak in any 4 hrs	
REL	Short-term value: 12.6* mg/m ³ , 2* ppm *60-min;See Pocket Guide App. A	
TLV	Short-term value: 63 mg/m ³ , 10 ppm Long-term value: 31 mg/m ³ , 5 ppm Skin	
67-6	6-3 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	
106-4	46-7 1,4-dichlorobenzene	
PEL	Long-term value: 450 mg/m ³ , 75 ppm	



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		(Contd. of page 6)
	See Pocket Guide App. A	
	Long-term value: 60 mg/m ³ , 10 ppm	
	06-2 1,2-dichloroethane	
PEL	Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs	
REL	Short-term value: 8 mg/m ³ , 2 ppm Long-term value: 4 mg/m ³ , 1 ppm See Pocket Guide Apps. A and C	
TLV	Long-term value: 40 mg/m ³ , 10 ppm	
71-55	5-6 1,1,1-trichloroethane	
PEL	Long-term value: 1900 mg/m ³ , 350 ppm	
REL	Ceiling limit value: 1900* mg/m³, 350* ppm *15-min; See Pocket Guide App. C	
TLV	Short-term value: 2460 mg/m ³ , 450 ppm Long-term value: 1910 mg/m ³ , 350 ppm BEI	
79-01	1-6 trichloroethylene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 2 hrs	
REL	See Pocket Guide Apps. A and C	
	Short-term value: 135 mg/m ³ , 25 ppm Long-term value: 54 mg/m ³ , 10 ppm BEI	
75-01	1-4 vinyl chloride	
PEL	Short-term value: 5* ppm	
DEI	Long-term value: 1 ppm *Avg. not exceeding any 15 min; see 29CFR1910.1017	
	See Pocket Guide App.A	
	Long-term value: 2.6 mg/m ³ , 1 ppm	
U	edients with biological limit values:	
	6-1 methanol	
	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
	3-2 benzene	
BEI	25 μg/g creatinine Medium: urine	
	Time: end of shift Parameter Parameter: S-Phenylmercapturic acid (background	
	500 μg/g creatinine Medium: urine Time: end of shift	
	Parameter: t,t-Muconic acid (background)	
·		(Contd. on page 8)



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71 55 (1 1 1 4	(Contd. of page
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-qu	antitative)
20 1	
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)	
79-01-6 trichloroethylene	
BEI 15 mg/L	
Medium: urine	
Time: end of shift at end of workweek	
Parameter: Trichloroacetic acid (nonspecific)	
0.5 mg/L	
Medium: blood	
Time: end of shift at end of workweek	
Parameter: Trichloroethanol without hydrolysis (nons	specific)
	peenie)
-	
Medium: blood	
Time: end of shift at end of workweek	
Parameter: Trichloroethylene (semi-quantitative)	
_	
Medium: end-exhaled air	
Time: end of shift at end of workweek	
Parameter: Trichloroethylene (semi-quantitative)	
• Additional information: The lists that were valid during t	he 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 o	
with standard practices does not result in significant airbor	
	(Contd. on page



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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

Information on basic physical and c	hemical 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)



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		(Contd. of page
· Density at 20 °C (68 °F):	0.82305 g/cm ³ (6.86835 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/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	98.2 %	
VOC content:	97.98 %	
	806.4 g/l / 6.73 lb/gal	
Solids content:	0.3 %	
· 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	LD/LC50 values that are relevant for classification:				
ATE (Acu	ite Toxicit	y Estimate)			
Oral	LD50	79,114 mg/kg (rat)			
Dermal	LD50	11,578 mg/kg			
Inhalative	LC50/4 h	3.08 mg/L			
67-56-1 m	ethanol				
Oral	LD50	5,628 mg/kg (rat)			
Dermal	LD50	15,800 mg/kg (rabbit)			
71-43-2 b	71-43-2 benzene				
Oral	LD50	3,340 mg/kg (rat)			
Dermal	LD50	48 mg/kg (mouse)			
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		(Contd. of	page 1
		>8,260 mg/kg (rabbit)	
Inhalative	LC50/4 h	9,980 mg/L (mouse)	
75-27-4 bi	romodichl	oromethane	
Oral	LD50	450 mg/kg (mouse)	
56-23-5 са	arbon tetra	achloride	
Oral	LD50	2,350 mg/kg (rat)	
Dermal	LD50	5,070 mg/kg (rat)	
67-66-3 tr	ichlorome	thane	
Oral	LD50	908 mg/kg (rat)	
Dermal	LD50	75 mg/kg (rat)	
		>20,000 mg/kg (rabbit)	
106-46-7	,4-dichlor	obenzene	
Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
Inhalative	LC50/4 h	>5.07 mg/L (rat)	
107-06-2	1,2-dichlor	oethane	
Oral	LD50	670 mg/kg (rat)	
Dermal	LD50	2,800 mg/kg (rat)	
		2,800 mg/kg (rabbit)	
71-55-6 1,	1,1-trichlo	roethane	
Oral	LD50	10,300 mg/kg (rat)	
79-01-6 tr	ichloroeth	ylene	
Oral	LD50	2,402 mg/kg (mouse)	
		4,290 mg/kg (rat)	
Dermal	LD50	8,450 mg/kg (mouse)	
75-01-4 vi	nyl chlori	le	
Oral	LD50	500 mg/kg (rat)	
Primary i	rritant eff		
on the ski	n: No irrita	int effect.	
on the eye			
		ization possible through skin contact. ical information:	
		e following dangers according to internally approved calculation methods for preparati	ons:
Toxic			
Irritant			
•		e inheritable damage.	
Carcinoge	0		
		l Agency for Research on Cancer)	
71-43-2			1
	bromodich	loromethane	2E
			_
75-25-2	bromoform carbon tetr		3 2E



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		ntd. of page 1
67-66-3	trichloromethane	2B
124-48-1	dibromochloromethane	3
106-46-7	1,4-dichlorobenzene	2B
107-06-2	1,2-dichloroethane	2B
75-35-4	1,1-dichloroethylene	3
71-55-6	1,1,1-trichloroethane	3
79-01-6	trichloroethylene	1
75-01-4	vinyl chloride	1
NTP (Na	tional Toxicology Program)	•
71-43-2	benzene	K
75-27-4	bromodichloromethane	R
56-23-5	carbon tetrachloride	R
67-66-3	trichloromethane	R
106-46-7	1,4-dichlorobenzene	R
107-06-2	1,2-dichloroethane	R
79-01-6	trichloroethylene	K
75-01-4	vinyl chloride	K
OSHA-C	a (Occupational Safety & Health Administration)	
71-43-2	benzene	
75-01-4	vinyl chloride	

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.
- \cdot 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.

- \cdot 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 \cdot IATA · Class 3 Flammable liquids · Label 3 (6.1) · Packing group · DOT, IMDG, IATA Π Not applicable. · Environmental hazards: · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 336 · EMS Number: F-E,S-D · Stowage Category В · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page 14) US



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· Transport/Additional information	(Contd. of page)
· 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

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

67-66-3 trichloromethane			
Section 3	13 (Specific toxic chemical listings):		
67-56-1	methanol		
	benzene		
75-27-4	bromodichloromethane		
	bromoform		
	carbon tetrachloride		
	trichloromethane		
	1,4-dichlorobenzene		
107-06-2	1,2-dichloroethane		
	1,1-dichloroethylene		
	1,1,1-trichloroethane		
	trichloroethylene		
75-01-4	vinyl chloride		
	Toxic Substances Control Act):		
All ingredients are listed.			
· TSCA new (21st Century Act): (Substances not listed)			
75-27-4	bromodichloromethane		
Proposit	ion 65		
Chemica	ls known to cause cancer:		
	benzene		
	bromodichloromethane		
	bromoform		
	carbon tetrachloride		
67-66-3	trichloromethane		



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		(Contd. of pa	age
	1,4-dichlorobenzene		
	1,2-dichloroethane		
	1,1-dichloroethylene		
	trichloroethylene		
	vinyl chloride		
	ls known to cause reproductive toxicity for females:		
None of	he ingredients is listed.		
· Chemica	ls known to cause reproductive toxicity for males:		
71-43-2	benzene		
79-01-6	trichloroethylene		
· Chemica	ls known to cause developmental toxicity:		
67-56-1	methanol		
71-43-2	benzene		
67-66-3	trichloromethane		
79-01-6	trichloroethylene		
· Carcino	genic categories		
	vironmental Protection Agency)		
71-43-2	benzene	A, K/L	
75-27-4	bromodichloromethane	B2	
75-25-2	bromoform	B2	
56-23-5	carbon tetrachloride	L	
67-66-3	trichloromethane	B2, L, NL	
124-48-1	dibromochloromethane	С	
107-06-2	1,2-dichloroethane	B2	
75-35-4	1,1-dichloroethylene	C, S (inh.), I (ora
71-55-6	1,1,1-trichloroethane	II	
	trichloroethylene	СаН	
75-01-4	vinyl chloride	A, K/L	
· TLV (Th	reshold Limit Value established by ACGIH)		
71-43-2	benzene		A
	bromoform		A
	carbon tetrachloride		А
	trichloromethane		А
	1,4-dichlorobenzene		А
	1,2-dichloroethane		А
	1,1-dichloroethylene		А
	1,1,1-trichloroethane		А
	trichloroethylene		A
75-01-4	vinyl chloride		A
75 01 1			
· NIOSH-	Ca (National Institute for Occupational Safety and Health) benzene		



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Version Number 2

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Trade name: VOC Standard (1X1 mL)

	(Contd. of page 15)
	carbon tetrachloride
	trichloromethane
	1,4-dichlorobenzene
	1,2-dichloroethane
	1,1-dichloroethylene
	trichloroethylene
75-01-4	vinyl chloride

· 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) 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. 1A: Carcinogenicity - Category 1A Repr. 2: Reproductive toxicity – Category 2 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.