Printing date 03/29/2019

gilent

Version Number 2

Reviewed on 03/29/2019

1 Identification

· Product identifier

· Trade name: Calibration Standard (1X1 mL)

- · Part number: DWM-536-1
- · 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.
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Carc. 1A H350 May cause cancer.

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

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



· Signal word Danger

• **Hazard-determining components of labeling:** methanol benzene 1,2-dibromo-3-chloropropane

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Trade name: Calibration Standard (1X1 mL)

(Contd. of page 1) · Hazard statements Highly flammable liquid and vapor. Toxic if inhaled. May cause genetic defects. 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. 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). 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 = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH Health = *1FIRE 3 Fire = 3**REACTIVITY** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · PBT: 87-68-3 hexachlorobuta-1,3-diene 87-61-6 1,2,3-trichlorobenzene 120-82-1 1,2,4-trichlorobenzene (Contd. on page 3)



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· vPvB:

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87-68-3 hexachlorobuta-1,3-diene

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerou	is components:	
67-56-1	methanol	95.702%
71-43-2	benzene	0.253%
96-12-8	1,2-dibromo-3-chloropropane	0.253%
106-46-7	1,4-dichlorobenzene	0.253%
87-68-3	hexachlorobuta-1,3-diene	0.253%
91-20-3	naphthalene	0.253%
103-65-1	propylbenzene	0.253%
108-88-3	toluene	0.253%
87-61-6	1,2,3-trichlorobenzene	0.253%
120-82-1	1,2,4-trichlorobenzene	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
- · Special hazards arising from the substance or mixture

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

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Safety Data Sheet acc. to OSHA HCS

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· 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	
135-98-8	2-Phenylbutane	1.2 ppm	
	tert-butylbenzene	1.7 ppm	
	1,2-dibromo-3-chloropropane	0.003 ppm	
106-46-7	1,4-dichlorobenzene	30 ppm	
	2,2-dichloropropane	2.6 ppm	
87-68-3	hexachlorobuta-1,3-diene	1 ppm	
99-87-6	p-cymene	120 mg/m ³	
91-20-3	naphthalene	15 ppm	
103-65-1	propylbenzene	3.7 ppm	
108-88-3	toluene	67 ppm	
87-61-6	1,2,3-trichlorobenzene	15 mg/m ³	
	1,2,4-trichlorobenzene	0.45 ppm	
95-63-6	1,2,4-trimethylbenzene	140 ppm	
108-67-8	mesitylene	140 ppm	
108-38-3	m-xylene	130 ppm	
· PAC-2:		I	
67-56-1	methanol	2,100 ppm	
71-43-2	benzene	800 ppm	
135-98-8	2-Phenylbutane	13 ppm	
98-06-6	tert-butylbenzene	18 ppm	
96-12-8	1,2-dibromo-3-chloropropane	2.2 ppm	
106-46-7	1,4-dichlorobenzene	170 ppm	
594-20-7	2,2-dichloropropane	29 ppm	
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	hexachlorobuta-1,3-diene	3 ppm
	p-cymene	1,300 mg/m ²
	naphthalene	83 ppm
	propylbenzene	41 ppm
108-88-3	toluene	560 ppm
	1,2,3-trichlorobenzene	60 mg/m ³
120-82-1	1,2,4-trichlorobenzene	5 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
108-67-8	mesitylene	360 ppm
108-38-3	m-xylene	920 ppm
PAC-3:		
67-56-1	methanol	7200* ppm
71-43-2	benzene	4000* ppm
135-98-8	2-Phenylbutane	81 ppm
98-06-6	tert-butylbenzene	110 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
594-20-7	2,2-dichloropropane	170 ppm
87-68-3	hexachlorobuta-1,3-diene	10 ppm
99-87-6	p-cymene	1,900 mg/m ²
91-20-3	naphthalene	500 ppm
103-65-1	propylbenzene	240 ppm
108-88-3		3700* ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
120-82-1	1,2,4-trichlorobenzene	20 ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
	mesitylene	480 ppm
	m-xylene	2500* 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.

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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

· Com	ponents with limit values that require monitoring at the workplace:
67-56	5-1 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
71-43	-2 benzene
	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)
	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
96-12	2-8 1,2-dibromo-3-chloropropane
PEL	Long-term value: 0.001 ppm see 29 CFR 1910.1044
REL	See Pocket Guide App. A
106-4	6-7 1,4-dichlorobenzene
PEL	Long-term value: 450 mg/m ³ , 75 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 60 mg/m ³ , 10 ppm
87-68	B-3 hexachlorobuta-1,3-diene
REL	Long-term value: 0.24 mg/m ³ , 0.02 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 0.21 mg/m ³ , 0.02 ppm Skin
91-20	-3 naphthalene
PEL	Long-term value: 50 mg/m ³ , 10 ppm
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REL	Short-term value: 75 mg/m ³ , 15 ppm Long-term value: 50 mg/m ³ , 10 ppm	
TLV	Long-term value: 52 mg/m ³ , 10 ppm Skin; BEI	
108-8	88-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm	
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI	
120-8	2-1 1,2,4-trichlorobenzene	
REL	Ceiling limit value: 40 mg/m ³ , 5 ppm	
TLV	Ceiling limit value: 37 mg/m ³ , 5 ppm	
· Ingre	edients with biological limit values:	
67-50	5-1 methanol	
	Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
71-43	3-2 benzene	
	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)	
	38-3 toluene	
	0.02 mg/L	
	Medium: blood Time: prior to last shift of workweek Parameter: Toluene	
	0.03 mg/L Medium: urine	
	Time: end of shift Parameter: Toluene	
	0.3 mg/g creatinine Medium: urine	
	Time: end of shift Parameter: o-Cresol with hydrolysis (background)	



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 Personal protective equipment: General 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; >4 hours Penetration time of glove material For normal use: nitrile rubber: 1 hour For direct contact with the chemical: butyl rubber: >4 hours Eve protection: Tightly sealed goggles 	Personal protective equipment: General protective and hygionic 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, buyl 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 normal use: nitrile rubber: 1 hour For normal use: nitrile rubber: 1 hour For direct contact with the chemical: butyl rubber; >4 hours Eye protection: Tightly sealed goggles Physical and chemical properties General Information Appearance: Form: Fluid Color: Colorless Odor: Alcohol-like Odor threshold: Not determined.	· Exposure controls	
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 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: 	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 direct contact with the chemical: butyl rubber, 12-15 mil thickness Port ortion use: nitrile rubber, 11-13 mil thickness For direct contact with the chemical: butyl rubber; >4 hours Eye protection: For direct contact with the chemical: butyl rubber: >4 hours Eye protection: Tightly sealed goggles Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: Fluid Color: Colorless Odor: Alc		
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	Form:FluidColor:ColorlessOdor:Alcohol-likeOdor threshold:Not determined.	· Information on basic physica · General Information	al and chemical properties
· Information on basic physical and chemical properties · General Information	Form:FluidColor:ColorlessOdor:Alcohol-likeOdor threshold:Not determined.	· Appearance:	
· General Information	Odor:Alcohol-likeOdor threshold:Not determined.		Fluid
· General Information · Appearance:	Odor threshold: Not determined.	Color:	Colorless
· General Information · Appearance: Form: Fluid		· Odor:	Alcohol-like
· General Information · Appearance: Form: Fluid Color: Colorless	nH_value: Not determined	· Odor threshold:	Not determined.
General Information Appearance: Form: Fluid Color: Colorless Odor: Alcohol-like		· pH-value:	Not determined

pii-value.	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-98 °C (-144.4 °F) 64.7 °C (148.5 °F)	
· Flash point:	9 °C (48.2 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	455 °C (851 °F)	
		(Contd. on page 9)



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	(Contd. of page 8
· 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):	0.81387 g/cm ³ (6.79175 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/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	98.7 %
VOC content:	98.74 %
	803.6 g/l / 6.71 lb/gal
Solids content:	0.8 %
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 21,882 mg/kg (rat)



Agilent

US

Safety Data Sheet acc. to OSHA HCS

Reviewed on 03/29/2019

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D 1		10.000 #	(Contd. of page
Dermal	LD50	12,829 mg/kg	
Inhalative	LC50/4 h	3.13 mg/L	
67-56-1 m	ethanol		
Oral	LD50	5,628 mg/kg (rat)	
Dermal	LD50	15,800 mg/kg (rabbit)	
71-43-2 be	enzene		
Oral	LD50	3,340 mg/kg (rat)	
Dermal	LD50	48 mg/kg (mouse)	
		>8,260 mg/kg (rabbit)	
Inhalative	LC50/4 h	9,980 mg/L (mouse)	
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)	
106-46-7 1	,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)	
87-68-3 he	exachlorob	outa-1,3-diene	
Oral	LD50	82 mg/kg (rat)	
Dermal	LD50	100 mg/kg (rabbit)	
Inhalative	LC50/4 h	370 mg/L (mouse)	
91-20-3 na	aphthalen		
Oral	LD50	490 mg/kg (rat)	
Dermal	LD50	5,000 mg/kg (rat)	
		20,000 mg/kg (rabbit)	
103-65-1 p	propylbenz	zene	
Oral	LD50	6,040 mg/kg (rat)	
108-88-3 t	oluene		
Oral	LD50	5,580 mg/kg (rat)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 h	5,320 mg/L (mouse)	
		28.1 mg/L (rat)	
87-61-6 1,	2,3-trichlo	robenzene	
Oral	LD50	1,830 mg/kg (rat)	
120-82-1 1	,2,4-trich	orobenzene	
Oral	LD50	756 mg/kg (rat)	
Dermal	LD50	6,139 mg/kg (rat)	
· Primary i			
• on the ski			
• on the eye • Sensitizati		ing effect. isitizing effects known.	
SUISILIZAL	1011. 110 30		(Contd. on page 1



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· Additional toxicological information:

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

The product can cause inheritable damage.

· Carcinogenic categories

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· IARC (In	nternational Agency for Research on Cancer)	
71-43-2	benzene	1
96-12-8	1,2-dibromo-3-chloropropane	2B
106-46-7	1,4-dichlorobenzene	2B
87-68-3	hexachlorobuta-1,3-diene	3
91-20-3	naphthalene	2B
108-88-3	toluene	3
95-47-6	o-xylene	3
108-38-3	m-xylene	3
· NTP (Na	tional Toxicology Program)	
71-43-2	benzene	K
96-12-8	1,2-dibromo-3-chloropropane	R
106-46-7	1,4-dichlorobenzene	R
91-20-3	naphthalene	R
· OSHA-C	a (Occupational Safety & Health Administration)	
71-43-2 1	oenzene	
96-12-8	1,2-dibromo-3-chloropropane	

12 Ecological information

- · 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:

87-68-3 hexachlorobuta-1,3-diene

87-61-6 1,2,3-trichlorobenzene

120-82-1 1,2,4-trichlorobenzene

· vPvB:

87-68-3 hexachlorobuta-1,3-diene

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[·] Toxicity

[—] US

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• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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- 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.

· Not Regulated, De minimus Quan	tities -
· 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.



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	(Contd. of page	
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	x 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

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

	he ingredients is listed.
	13 (Specific toxic chemical listings):
67-56-1	methanol
71-43-2	benzene
96-12-8	1,2-dibromo-3-chloropropane
106-46-7	1,4-dichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
91-20-3	naphthalene
108-88-3	toluene
120-82-1	1,2,4-trichlorobenzene
95-63-6	1,2,4-trimethylbenzene
95-47-6	o-xylene
108-38-3	m-xylene
TSCA (T	oxic Substances Control Act):
All ingree	lients are listed.
TSCA ne	w (21st Century Act): (Substances not listed)
96-12-8	1,2-dibromo-3-chloropropane
87-68-3	hexachlorobuta-1,3-diene



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US

· Propositi	s known to cause cancer:	
	benzene	
	1,2-dibromo-3-chloropropane	
	1,4-dichlorobenzene	
	hexachlorobuta-1,3-diene	
	naphthalene	
	-	
	s known to cause reproductive toxicity for females:	
	he ingredients is listed.	
	s known to cause reproductive toxicity for males:	
71-43-2 ł		
96-12-8	,2-dibromo-3-chloropropane	
· Chemical	s known to cause developmental toxicity:	
67-56-1	methanol	
71-43-2	benzene	
108-88-3	toluene	
·Carcinoa	enic categories	
	vironmental Protection Agency)	
	benzene	A, K
	hexachlorobuta-1,3-diene	C
	naphthalene	C, Cl
108-88-3	•	II
	1,2,4-trichlorobenzene	D
	1,2,4-trimethylbenzene	II
	mesitylene	II
	o-xylene	I
	m-xylene	I
		1
	reshold Limit Value established by ACGIH) benzene	
	1,4-dichlorobenzene	
	hexachlorobuta-1,3-diene	
	naphthalene	
108-88-3		
	o-xylene	
	m-xylene	
	Ca (National Institute for Occupational Safety and Health)	
	benzene	
	1,2-dibromo-3-chloropropane	
	1,4-dichlorobenzene	
0 - 60 0	hexachlorobuta-1,3-diene	



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Trade name: Calibration Standard (1X1 mL)

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· 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 Muta. 1B: Germ cell mutagenicity - Category 1B Carc. 1A: Carcinogenicity - Category 1A Repr. 1A: Reproductive toxicity - Category 1A STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 * * Data compared to the previous version altered.



Printing date 03/29/2019