

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/29/2019

Version Number 3

Reviewed on 03/29/2019

1 Identification

- **Product identifier**
- **Trade name: Base/Neutral and Acid Calibration Standard (1X1 mL)**
- **Part number:** US-201-1
- **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**



GHS08 Health hazard

Carc. 1B H350 May cause cancer.

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

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

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

dichloromethane
dimethylnitrosoamine
nitrosodipropylamine
benzo[a]pyrene

- **Hazard statements**

Harmful if swallowed.
Causes skin irritation.

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- Causes serious eye irritation.
- May cause cancer.
- May cause respiratory irritation.
- 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.
- 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 swallowed: Call a poison center/doctor if you feel unwell.
- Rinse mouth.
- If on skin: Wash with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Specific treatment (see on this label).
- Get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Store in a well-ventilated place. Keep container tightly closed.
- 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)**

HEALTH	2	Health = *2
FIRE	0	Fire = 0
REACTIVITY	0	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:**

75-09-2	dichloromethane	94.27%
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50-32-8	benzo[a]pyrene	0.0754%
53-70-3	dibenz[a,h]anthracene	0.0754%
62-75-9	dimethylnitrosoamine	0.0754%
621-64-7	nitrosodipropylamine	0.0754%

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.
- **After inhalation:** 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. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a 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:** Use fire fighting measures that suit the environment.
- **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.
- **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:**

75-09-2	dichloromethane	200 ppm
83-32-9	acenaphthene	3.6 mg/m ³

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208-96-8	acenaphthylene	10 mg/m ³
62-53-3	aniline	8.0 ppm
120-12-7	anthracene	48 mg/m ³
56-55-3	benz[a]anthracene	0.6 mg/m ³
50-32-8	benzo[a]pyrene	0.6 mg/m ³
205-99-2	benz[e]acephenanthrylene	0.12 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	10 mg/m ³
191-24-2	benzo[ghi]perylene	30 mg/m ³
100-51-6	Benzyl alcohol	30 ppm
101-55-3	4-bromophenyl phenyl ether	0.33 mg/m ³
85-68-7	BBP	15 mg/m ³
86-74-8	carbazole	0.66 mg/m ³
106-47-8	4-chloroaniline	6.1 mg/m ³
111-91-1	bis(2-chloroethoxy)methane	0.04 ppm
111-44-4	bis(2-chloroethyl) ether	10 ppm
108-60-1	bis(2-chloroisopropyl) ether	0.15 ppm
91-58-7	2-chloronaphthalene	6.2 mg/m ³
95-57-8	2-chlorophenol	2.3 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	1.5 mg/m ³
59-50-7	chlorocresol	5.5 mg/m ³
218-01-9	chrysene	0.6 mg/m ³
132-64-9	dibenzofuran	30 mg/m ³
53-70-3	dibenz[a,h]anthracene	0.093 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
120-83-2	2,4-dichlorophenol	0.2 ppm
84-66-2	diethyl phthalate	15 mg/m ³

· PAC-2:

75-09-2	dichloromethane	560 ppm
83-32-9	acenaphthene	40 mg/m ³
208-96-8	acenaphthylene	110 mg/m ³
62-53-3	aniline	12 ppm
120-12-7	anthracene	530 mg/m ³
56-55-3	benz[a]anthracene	120 mg/m ³
50-32-8	benzo[a]pyrene	120 mg/m ³
205-99-2	benz[e]acephenanthrylene	1.3 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	1,000 mg/m ³
191-24-2	benzo[ghi]perylene	330 mg/m ³
100-51-6	Benzyl alcohol	52 ppm
101-55-3	4-bromophenyl phenyl ether	3.6 mg/m ³

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85-68-7	BBP	77 mg/m ³
86-74-8	carbazole	7.2 mg/m ³
106-47-8	4-chloroaniline	68 mg/m ³
111-91-1	bis(2-chloroethoxy)methane	0.44 ppm
111-44-4	bis(2-chloroethyl) ether	25 ppm
108-60-1	bis(2-chloroisopropyl) ether	1.6 ppm
91-58-7	2-chloronaphthalene	69 mg/m ³
95-57-8	2-chlorophenol	25 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	35 mg/m ³
59-50-7	chlorocresol	60 mg/m ³
218-01-9	chrysene	12 mg/m ³
132-64-9	dibenzofuran	330 mg/m ³
53-70-3	dibenz[a,h]anthracene	1 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
120-83-2	2,4-dichlorophenol	2 ppm
84-66-2	diethyl phthalate	300 mg/m ³

PAC-3:

75-09-2	dichloromethane	6,900 ppm
83-32-9	acenaphthene	240 mg/m ³
208-96-8	acenaphthylene	660 mg/m ³
62-53-3	aniline	20 ppm
120-12-7	anthracene	3,200 mg/m ³
56-55-3	benz[a]anthracene	700 mg/m ³
50-32-8	benzo[a]pyrene	700 mg/m ³
205-99-2	benz[e]acephenanthrylene	7.9 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	6,100 mg/m ³
191-24-2	benzo[ghi]perylene	2,000 mg/m ³
100-51-6	Benzyl alcohol	740 ppm
101-55-3	4-bromophenyl phenyl ether	21 mg/m ³
85-68-7	BBP	460 mg/m ³
86-74-8	carbazole	43 mg/m ³
106-47-8	4-chloroaniline	100 mg/m ³
111-91-1	bis(2-chloroethoxy)methane	2.7 ppm
111-44-4	bis(2-chloroethyl) ether	250 ppm
108-60-1	bis(2-chloroisopropyl) ether	22 ppm
91-58-7	2-chloronaphthalene	410 mg/m ³
95-57-8	2-chlorophenol	150 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	210 mg/m ³
59-50-7	chlorocresol	360 mg/m ³

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218-01-9	chrysene	69 mg/m ³
132-64-9	dibenzofuran	2,000 mg/m ³
53-70-3	dibenz[a,h]anthracene	2.9 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
120-83-2	2,4-dichlorophenol	20 ppm
84-66-2	diethyl phthalate	1,800 mg/m ³

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 respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:

75-09-2 dichloromethane

PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 174 mg/m ³ , 50 ppm BEI

50-32-8 benzo[a]pyrene

PEL	Long-term value: 0.2 mg/m ³ see Coal tar pitch volatiles
REL	Long-term value: 0.1 mg/m ³ Coal tar pitch volatile; Pocket Guide Apps. A+C
TLV	L; BEIp

62-75-9 dimethylnitrosoamine

PEL	see 29 CFR 1910.1003
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REL	See Pocket Guide App. A
TLV	Skin; L

Ingredients with biological limit values:
75-09-2 dichloromethane

BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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50-32-8 benzo[a]pyrene

BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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· **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.
Avoid contact with the eyes and skin.

· **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:**

Safety glasses



Tightly sealed goggles

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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: 40 °C (104 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 605 °C (1,121 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: 13 Vol %

Upper: 22 Vol %

· **Vapor pressure at 20 °C (68 °F):** 360 hPa (270 mm Hg)

· **Density:** Not determined.

· **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: 94.9 %

VOC content: 0.60 %

6.0 g/l / 0.05 lb/gal

Solids content: 3.8 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **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	1,697 mg/kg (rat)
Dermal	LD50	>2,122 mg/kg (rat)
Inhalative	LC50/4 h	93.3 mg/L (rat)

75-09-2 dichloromethane

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/L (rat)

208-96-8 acenaphthylene

Oral	LD50	1,760 mg/kg (mouse)
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103-33-3 azobenzene

Oral	LD50	1,000 mg/kg (rat)
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106-47-8 4-chloroaniline

Oral	LD50	310 mg/kg (rat)
Dermal	LD50	3,200 mg/kg (rat)

111-44-4 bis(2-chloroethyl) ether

Oral	LD50	75 mg/kg (rat)
Dermal	LD50	90 mg/kg (rabbit)
Inhalative	LC50/4 h	330 mg/L (rat)

99-65-0 1,3-dinitrobenzene

Oral	LD50	83 mg/kg (rat)
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121-14-2 2,4-dinitrotoluene

Oral	LD50	268 mg/kg (rat)
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606-20-2 2,6-dinitrotoluene

Oral	LD50	177 mg/kg (rat)
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534-52-1 DNOC

Oral	LD50	7 mg/kg (rat)
Dermal	LD50	200 mg/kg (rat)
		1,000 mg/kg (rabbit)

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118-74-1 hexachlorobenzene		
Oral	LD50	10,000 mg/kg (rat)
Inhalative	LC50/4 h	3,600 mg/L (rat)
62-75-9 dimethylnitrosoamine		
Oral	LD50	37 mg/kg (rat)
Inhalative	LC50/4 h	78 mg/L (rat)
621-64-7 nitrosodipropylamine		
Oral	LD50	480 mg/kg (rat)
87-86-5 pentachlorophenol		
Oral	LD50	27 mg/kg (rat)
Dermal	LD50	96 mg/kg (rat)
Inhalative	LC50/4 h	355 mg/L (rat)
129-00-0 pyrene		
Oral	LD50	2,700 mg/kg (rat)
Inhalative	LC50/4 h	170 mg/L (rat)
77-47-4 hexachlorocyclopentadiene		
Oral	LD50	315 mg/kg (rat)
Dermal	LD50	430 mg/kg (rabbit)
Inhalative	LC50/4 h	2 mg/L (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

Harmful

Irritant

- **Carcinogenic categories**

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

75-09-2	dichloromethane	2A
83-32-9	acenaphthene	3
62-53-3	aniline	3
120-12-7	anthracene	3
103-33-3	azobenzene	3
56-55-3	benz[a]anthracene	2B
50-32-8	benzo[a]pyrene	1
205-99-2	benz[e]acephenanthrylene	2B
117-81-7	di-(2-ethylhexyl) phthalate	2B
191-24-2	benzo[ghi]perylene	3
207-08-9	benzo[k]fluoranthene	2B
85-68-7	BBP	3
86-74-8	carbazole	2B

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106-47-8	4-chloroaniline	2B
111-44-4	bis(2-chloroethyl) ether	3
108-60-1	bis(2-chloroisopropyl) ether	3
95-57-8	2-chlorophenol	2B
218-01-9	chrysene	2B
53-70-3	dibenz[a,h]anthracene	2A
95-50-1	1,2-dichlorobenzene	3
541-73-1	1,3-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
120-83-2	2,4-dichlorophenol	2B
121-14-2	2,4-dinitrotoluene	2B
606-20-2	2,6-dinitrotoluene	2B
103-23-1	Di-(2-ethylhexyl) adipate	3
206-44-0	fluoranthene	3
86-73-7	fluorene	3
118-74-1	hexachlorobenzene	2B
87-68-3	hexachlorobuta-1,3-diene	3

· NTP (National Toxicology Program)

75-09-2	dichloromethane	R
120-12-7	anthracene	R
56-55-3	benz[a]anthracene	R
50-32-8	benzo[a]pyrene	R
205-99-2	benz[e]acephenanthrylene	R
117-81-7	di-(2-ethylhexyl) phthalate	R
207-08-9	benzo[k]fluoranthene	R
218-01-9	chrysene	R
53-70-3	dibenz[a,h]anthracene	R
106-46-7	1,4-dichlorobenzene	R
206-44-0	fluoranthene	R
86-73-7	fluorene	R
118-74-1	hexachlorobenzene	R
67-72-1	hexachloroethane	R
193-39-5	indeno[1,2,3-cd]pyrene	R
91-20-3	naphthalene	R
98-95-3	nitrobenzene	R
62-75-9	dimethylnitrosoamine	R
621-64-7	nitrosodipropylamine	R
87-86-5	pentachlorophenol	R
85-01-8	phenanthrene	R
129-00-0	pyrene	R
88-06-2	2,4,6-trichlorophenol	R

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· OSHA-Ca (Occupational Safety & Health Administration)	
75-09-2	dichloromethane
62-53-3	aniline
62-75-9	dimethylnitrosoamine

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Not Regulated, De minimus Quantities	-
· UN-Number	
· DOT, IMDG, IATA	UN1593
· UN proper shipping name	
· DOT	Dichloromethane
· IMDG	DICHLOROMETHANE solution, MARINE POLLUTANT
· IATA	DICHLOROMETHANE solution

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 · **Transport hazard class(es)**

 · **DOT, IATA**


· Class	6.1 Toxic substances
· Label	6.1

 · **IMDG**


· Class	6.1 Toxic substances
· Label	6.1

· Packing group	III
· DOT, IMDG, IATA	III

· Environmental hazards:	Product contains environmentally hazardous substances: aniline, benz[a]anthracene
· Marine pollutant:	Symbol (fish and tree)

· Special precautions for user	Warning: Toxic substances
· Danger code (Kemler):	60
· EMS Number:	F-A,S-A
· Segregation groups	Liquid halogenated hydrocarbons
· Stowage Category	A

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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 · **Transport/Additional information:**

· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

 · **IMDG**

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":	UN 1593 DICHLOROMETHANE SOLUTION, 6.1, III, ENVIRONMENTALLY HAZARDOUS
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US

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Sara

- **Section 355 (extremely hazardous substances):**

62-53-3	aniline
111-44-4	bis(2-chloroethyl) ether
534-52-1	DNOC
95-48-7	o-cresol
98-95-3	nitrobenzene
62-75-9	dimethylnitrosoamine
108-95-2	phenol
129-00-0	pyrene
77-47-4	hexachlorocyclopentadiene

- **Section 313 (Specific toxic chemical listings):**

75-09-2	dichloromethane
62-53-3	aniline
120-12-7	anthracene
56-55-3	benz[a]anthracene
50-32-8	benzo[a]pyrene
205-99-2	benz[e]acephenanthrylene
117-81-7	di-(2-ethylhexyl) phthalate
191-24-2	benzo[ghi]perylene
207-08-9	benzo[k]fluoranthene
106-47-8	4-chloroaniline
111-91-1	bis(2-chloroethoxy)methane
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloroisopropyl) ether
95-57-8	2-chlorophenol
218-01-9	chrysene
132-64-9	dibenzofuran
53-70-3	dibenz[a,h]anthracene
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
120-83-2	2,4-dichlorophenol
131-11-3	dimethyl phthalate
105-67-9	2,4-xylenol
528-29-0	1,2-dinitrobenzene
99-65-0	1,3-dinitrobenzene
100-25-4	1,4-dinitrobenzene

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51-28-5	2,4-dinitrophenol
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
534-52-1	DNOC

· TSCA (Toxic Substances Control Act):

75-09-2	dichloromethane
83-32-9	acenaphthene
208-96-8	acenaphthylene
62-53-3	aniline
120-12-7	anthracene
103-33-3	azobenzene
56-55-3	benz[a]anthracene
50-32-8	benzo[a]pyrene
117-81-7	di-(2-ethylhexyl) phthalate
100-51-6	Benzyl alcohol
101-55-3	4-bromophenyl phenyl ether
85-68-7	BBP
86-74-8	carbazole
106-47-8	4-chloroaniline
111-91-1	bis(2-chloroethoxy)methane
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloroisopropyl) ether
91-58-7	2-chloronaphthalene
95-57-8	2-chlorophenol
7005-72-3	4-chlorophenyl phenyl ether
59-50-7	chlorocresol
218-01-9	chrysene
132-64-9	dibenzofuran
53-70-3	dibenz[a,h]anthracene
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
120-83-2	2,4-dichlorophenol
84-66-2	diethyl phthalate
131-11-3	dimethyl phthalate

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

53-70-3	dibenz[a,h]anthracene
62-75-9	dimethylnitrosoamine
621-64-7	nitrosodipropylamine

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· Proposition 65
· Chemicals known to cause cancer:

75-09-2	dichloromethane
62-53-3	aniline
103-33-3	azobenzene
56-55-3	benz[a]anthracene
50-32-8	benzo[a]pyrene
205-99-2	benz[e]acephenanthrylene
117-81-7	di-(2-ethylhexyl) phthalate
207-08-9	benzo[k]fluoranthene
86-74-8	carbazole
106-47-8	4-chloroaniline
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloroisopropyl) ether
218-01-9	chrysene
53-70-3	dibenz[a,h]anthracene
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
118-74-1	hexachlorobenzene
87-68-3	hexachlorobuta-1,3-diene
67-72-1	hexachloroethane
193-39-5	indeno[1,2,3-cd]pyrene
91-20-3	naphthalene
98-95-3	nitrobenzene
62-75-9	dimethylnitrosoamine
621-64-7	nitrosodipropylamine
87-86-5	pentachlorophenol
110-86-1	pyridine
88-06-2	2,4,6-trichlorophenol

· Chemicals known to cause reproductive toxicity for females:

84-74-2	dibutyl phthalate
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· Chemicals known to cause reproductive toxicity for males:

117-81-7	di-(2-ethylhexyl) phthalate
528-29-0	1,2-dinitrobenzene
99-65-0	1,3-dinitrobenzene
100-25-4	1,4-dinitrobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
84-74-2	dibutyl phthalate
98-95-3	nitrobenzene

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· Chemicals known to cause developmental toxicity:

117-81-7	di-(2-ethylhexyl) phthalate
85-68-7	BBP
84-74-2	dibutyl phthalate
118-74-1	hexachlorobenzene

· Carcinogenic categories
· EPA (Environmental Protection Agency)

75-09-2	dichloromethane	L
83-32-9	acenaphthene	A (oral)
208-96-8	acenaphthylene	D
62-53-3	aniline	B2
120-12-7	anthracene	D
103-33-3	azobenzene	B2
56-55-3	benz[a]anthracene	B2
50-32-8	benzo[a]pyrene	CaH
205-99-2	benz[e]acephenanthrylene	B2
117-81-7	di-(2-ethylhexyl) phthalate	B2
191-24-2	benzo[ghi]perylene	D
207-08-9	benzo[k]fluoranthene	B2
101-55-3	4-bromophenyl phenyl ether	D
85-68-7	BBP	C
111-91-1	bis(2-chloroethoxy)methane	D
111-44-4	bis(2-chloroethyl) ether	B2
218-01-9	chrysene	B2
132-64-9	dibenzofuran	D
53-70-3	dibenz[a,h]anthracene	B2
95-50-1	1,2-dichlorobenzene	D
541-73-1	1,3-dichlorobenzene	D
84-66-2	diethyl phthalate	D
131-11-3	dimethyl phthalate	D
528-29-0	1,2-dinitrobenzene	D
99-65-0	1,3-dinitrobenzene	D
100-25-4	1,4-dinitrobenzene	D
84-74-2	dibutyl phthalate	D
103-23-1	Di-(2-ethylhexyl) adipate	C
206-44-0	fluoranthene	D
86-73-7	fluorene	D

· TLV (Threshold Limit Value established by ACGIH)

75-09-2	dichloromethane	A3
62-53-3	aniline	A3
56-55-3	benz[a]anthracene	A2

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50-32-8	benzo[a]pyrene	A2
205-99-2	benz[e]acephenanthrylene	A2
117-81-7	di-(2-ethylhexyl) phthalate	A3
111-44-4	bis(2-chloroethyl) ether	A4
218-01-9	chrysene	A3
95-50-1	1,2-dichlorobenzene	A4
106-46-7	1,4-dichlorobenzene	A3
84-66-2	diethyl phthalate	A4
122-39-4	diphenylamine	A4
118-74-1	hexachlorobenzene	A3
87-68-3	hexachlorobuta-1,3-diene	A3
67-72-1	hexachloroethane	A3
78-59-1	3,5,5-trimethylcyclohex-2-enone	A3
90-12-0	1-methylnaphthalene	A4
91-57-6	2-methylnaphthalene	A4
91-20-3	naphthalene	A4
100-01-6	p-nitroaniline	A4
98-95-3	nitrobenzene	A3
62-75-9	dimethylnitrosoamine	A3
87-86-5	pentachlorophenol	A3
108-95-2	phenol	A4
110-86-1	pyridine	A3
77-47-4	hexachlorocyclopentadiene	A4

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

75-09-2	dichloromethane
62-53-3	aniline
50-32-8	benzo[a]pyrene
117-81-7	di-(2-ethylhexyl) phthalate
111-44-4	bis(2-chloroethyl) ether
218-01-9	chrysene
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
87-68-3	hexachlorobuta-1,3-diene
67-72-1	hexachloroethane
62-75-9	dimethylnitrosoamine

· 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.

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Trade name: Base/Neutral and Acid Calibration Standard (1X1 mL)· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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 / 2· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 1B: Carcinogenicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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