Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.01.2026 Version number 5 (replaces version 4) Revision: 28.01.2026

1 Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: VOC Standard (1X1 mL)**

· **Part number:** DWM-588-1

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Reagents and Standards for Analytical Chemical Laboratory Use

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany

· **Further information obtainable from:**
Telephone: 0800 603 1000
pdl-msds_author@agilent.com

· **1.4 Emergency telephone number:** CHEMTREC®: +(353) 1 901 4670

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2 Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.

GHS08 health hazard

Muta. 1B H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Ozone 1 H420 Harms public health and the environment by destroying ozone in the upper atmosphere

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
methanol
1,2-dibromoethane
benzene
carbon tetrachloride
· **Hazard statements**

H225	Highly flammable liquid and vapour.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H370	Causes damage to the central nervous system and the visual organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H420	Harms public health and the environment by destroying ozone in the upper atmosphere

· **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
Contains carbon tetrachloride, tetrachloroethylene, (Z)-1,3-dichloropropene, trans-1,3-dichloropropene. May produce an allergic reaction.
For use in industrial installations only.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**

· **PBT:**	
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene

· **vPvB:**	
87-68-3	hexachlorobuta-1,3-diene

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· **Determination of endocrine-disrupting properties**		
108-90-7	chlorobenzene	List II

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3 Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**		
CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	84.832%
CAS: 56-23-5 EINECS: 200-262-8	carbon tetrachloride Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317; Ozone 1, H420; Aquatic Chronic 3, H412 Specific concentration limits: STOT RE 1; H372: C ≥ 1 % STOT RE 2; H373: 0.2 % ≤ C < 1 %	0.2528%
CAS: 67-66-3 EINECS: 200-663-8	trichloromethane Acute Tox. 2, H310; Acute Tox. 3, H331; Carc. 2, H351; Repr. 2, H361d; STOT RE 1, H372; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.2528%
CAS: 71-43-2 EINECS: 200-753-7	benzene Flam. Liq. 2, H225; Acute Tox. 1, H310; Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.2528%
CAS: 71-55-6 EINECS: 200-756-3	1,1,1-trichloroethane Carc. 2, H351; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Ozone 1, H420	0.2528%
CAS: 74-83-9 EINECS: 200-813-2	bromomethane Acute Tox. 3, H301; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Ozone 1, H420; Press. Gas (Comp.)	0.2528%
CAS: 74-87-3 EINECS: 200-817-4	chloromethane Flam. Gas 1A, H220; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H302; Press. Gas (Comp.), H280	0.2528%
CAS: 75-00-3 EINECS: 200-830-5	chloroethane Flam. Gas 1A, H220; Flam. Liq. 1, H224; Carc. 2, H351; Press. Gas (Comp.), H280; Aquatic Chronic 3, H412	0.2528%
CAS: 75-01-4 EINECS: 200-831-0	vinyl chloride Flam. Gas 1A, H220; Carc. 1A, H350; Acute Tox. 4, H302; Press. Gas (Comp.), H280	0.2528%
CAS: 75-09-2 EINECS: 200-838-9	dichloromethane Carc. 2, H351; STOT RE 2, H373; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.2528%

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CAS: 75-25-2 EINECS: 200-854-6	bromoform Acute Tox. 3, H331; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.2528%
CAS: 75-27-4 EINECS: 200-856-7	bromodichloromethane Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	0.2528%
CAS: 75-35-4 EINECS: 200-864-0	1,1-dichloroethylene Flam. Liq. 1, H224; Acute Tox. 3, H301; Carc. 2, H351; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.2528%
CAS: 75-69-4 EINECS: 200-892-3	trichlorofluoromethane Ozone 1, H420	0.2528%
CAS: 78-87-5 EINECS: 201-152-2	1,2-dichloropropane Flam. Liq. 2, H225; Carc. 1B, H350; Acute Tox. 4, H302; Acute Tox. 4, H332	0.2528%
CAS: 79-00-5 EINECS: 201-166-9	1,1,2-trichloroethane Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332, EUH066	0.2528%
CAS: 79-01-6 EINECS: 201-167-4	trichloroethylene Muta. 2, H341; Carc. 1B, H350; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336; Aquatic Chronic 3, H412	0.2528%
CAS: 79-34-5 EINECS: 201-197-8	1,1,2,2-tetrachloroethane Acute Tox. 3, H301; Acute Tox. 1, H310; Acute Tox. 2, H330; Aquatic Chronic 2, H411	0.2528%
CAS: 87-61-6 EINECS: 201-757-1	1,2,3-trichlorobenzene Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315 PBT	0.2528%
CAS: 87-68-3 EINECS: 201-765-5	hexachlorobuta-1,3-diene Acute Tox. 3, H301; Acute Tox. 2, H310; Carc. 2, H351; Skin Irrit. 2, H315 PBT; vPvB	0.2528%
CAS: 91-20-3 EINECS: 202-049-5	naphthalene Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	0.2528%
CAS: 95-50-1 EINECS: 202-425-9	1,2-dichlorobenzene Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.2528%
CAS: 96-12-8 EINECS: 202-479-3	1,2-dibromo-3-chloropropane Acute Tox. 3, H301; Muta. 1B, H340; Carc. 1B, H350; Repr. 1A, H360F; STOT RE 2, H373; Acute Tox. 4, H312; Aquatic Chronic 3, H412	0.2528%
CAS: 96-18-4 EINECS: 202-486-1	1,2,3-trichloropropane Carc. 1B, H350; Repr. 1B, H360F; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	0.2528%
CAS: 98-82-8 EINECS: 202-704-5	cumene Flam. Liq. 3, H226; Carc. 1B, H350; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302; STOT SE 3, H335	0.2528%
CAS: 99-87-6 EINECS: 202-796-7	p-cymene Flam. Liq. 3, H226; Acute Tox. 3, H331; Asp. Tox. 1, H304; Aquatic Chronic 2, H411 ATE: LC50/4 h inhalative: 3 mg/L	0.2528%

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CAS: 100-42-5 EINECS: 202-851-5	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.2528%
CAS: 103-65-1 EINECS: 203-132-9	propylbenzene Flam. Liq. 3, H226; Carc. 1B, H350; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335	0.2528%
CAS: 106-46-7 EINECS: 203-400-5	1,4-dichlorobenzene Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319	0.2528%
CAS: 106-93-4 EINECS: 203-444-5	1,2-dibromoethane Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 1B, H350; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.2528%
CAS: 107-06-2 EINECS: 203-458-1	1,2-dichloroethane Flam. Liq. 2, H225; Carc. 1B, H350; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.2528%
CAS: 108-88-3 EINECS: 203-625-9	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	0.2528%
CAS: 108-90-7 EINECS: 203-628-5	chlorobenzene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315	0.2528%
CAS: 120-82-1 EINECS: 204-428-0	1,2,4-trichlorobenzene Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315 PBT	0.2528%
CAS: 127-18-4 EINECS: 204-825-9	tetrachloroethylene Carc. 2, H351; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.2528%
CAS: 563-58-6 EINECS: 209-253-3	1,1-dichloropropene Flam. Liq. 2, H225; Acute Tox. 3, H301; Aquatic Chronic 3, H412	0.2528%
CAS: 630-20-6 EINECS: 211-135-1	1,1,1,2-tetrachloroethane Carc. 2, H351; Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319; Aquatic Chronic 4, H413	0.2528%
CAS: 10061-01-5 EINECS: 233-195-8	(Z)-1,3-dichloropropene Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H311; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.2528%
CAS: 10061-02-6	trans-1,3-dichloropropene Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H311; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 4, H413	0.2528%

· **SVHC**	
79-01-6	trichloroethylene
96-18-4	1,2,3-trichloropropane
107-06-2	1,2-dichloroethane

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **4.1 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 equipment 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:** Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **5.3 Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Dispose material and residues under controlled conditions
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 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 section 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Handle material under controlled conditions.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **7.2 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 container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **7.3 Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
67-56-1 methanol	
OEL	Long-term value: 260 mg/m³, 200 ppm Skin, IOELV
56-23-5 carbon tetrachloride	
OEL	Short-term value: 32 mg/m³, 5 ppm Long-term value: 6.4 mg/m³, 1 ppm Skin, IOELV
67-66-3 trichloromethane	
OEL	Long-term value: 9.8 mg/m³, 2 ppm Skin, IOELV
71-43-2 benzene	
OEL	Long-term value: 1.65 0.66* mg/m³, 0.5 0.2* ppm Skin; BOELV, Carc1A, Muta1B, *as of 06.04.26
71-55-6 1,1,1-trichloroethane	
OEL	Short-term value: 1110 mg/m³, 200 ppm Long-term value: 555 mg/m³, 100 ppm IOELV
74-83-9 bromomethane	
OEL	Short-term value: 60 mg/m³, 15 ppm Long-term value: 20 mg/m³, 5 ppm Skin

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74-87-3 chloromethane	
OEL	Long-term value: 42 mg/m³, 20 ppm IOELV
75-00-3 chloroethane	
OEL	Long-term value: 268 mg/m³, 100 ppm IOELV
75-01-4 vinyl chloride	
OEL	Long-term value: 2.6 mg/m³, 1 ppm Carc1A, BOELV
75-09-2 dichloromethane	
OEL	Short-term value: 706 mg/m³, 200 ppm Long-term value: 353 mg/m³, 100 ppm Skin, IOELV
75-25-2 bromoform	
OEL	Long-term value: 5 mg/m³, 0.5 ppm Skin
75-35-4 1,1-dichloroethylene	
OEL	Short-term value: 20 mg/m³, 5 ppm Long-term value: 8 mg/m³, 2 ppm IOELV
75-69-4 trichlorofluoromethane	
OEL	Short-term value: 5619 mg/m³, 1000 ppm
78-87-5 1,2-dichloropropane	
OEL	Long-term value: 46 mg/m³, 10 ppm Carc 1B
79-00-5 1,1,2-trichloroethane	
OEL	Long-term value: 45 mg/m³, 10 ppm Skin
79-01-6 trichloroethylene	
OEL	Short-term value: 164.1 mg/m³, 30 ppm Long-term value: 54.7 mg/m³, 10 ppm BOELV, Skin; Carc1B
79-34-5 1,1,2,2-tetrachloroethane	
OEL	Long-term value: 6.9 mg/m³, 1 ppm Skin
87-68-3 hexachlorobuta-1,3-diene	
OEL	Long-term value: 0.21 mg/m³, 0.02 ppm Skin
91-20-3 naphthalene	
OEL	Long-term value: 50 mg/m³, 10 ppm IOELV
95-50-1 1,2-dichlorobenzene	
OEL	Short-term value: 306 mg/m³, 50 ppm Long-term value: 122 mg/m³, 20 ppm Skin, IOELV

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96-18-4 1,2,3-trichloropropane	
OEL	Long-term value: 0.005 ppm Carc 1B, Repr 1B
98-82-8 cumene	
OEL	Short-term value: 250 mg/m³, 50 ppm Long-term value: 50 mg/m³, 10 ppm Skin, IOELV, Carc 1B
100-42-5 styrene	
OEL	Short-term value: 170 mg/m³, 40 ppm Long-term value: 85 mg/m³, 20 ppm
106-46-7 1,4-dichlorobenzene	
OEL	Short-term value: 60 mg/m³, 10 ppm Long-term value: 12 mg/m³, 2 ppm Skin, IOELV
106-93-4 1,2-dibromoethane	
OEL	Long-term value: 0.8 mg/m³, 0.1 ppm BOELV, Skin; Carc1B
107-06-2 1,2-dichloroethane	
OEL	Long-term value: 8.2 mg/m³, 2 ppm BOELV, Skin, Carc1B
108-88-3 toluene	
OEL	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Skin, IOELV
108-90-7 chlorobenzene	
OEL	Short-term value: 70 mg/m³, 15 ppm Long-term value: 23 mg/m³, 5 ppm IOELV
120-82-1 1,2,4-trichlorobenzene	
OEL	Short-term value: 37.8 mg/m³, 5 ppm Long-term value: 15.1 mg/m³, 2 ppm Skin, IOELV
127-18-4 tetrachloroethylene	
OEL	Short-term value: 275 mg/m³, 40 ppm Long-term value: 138 mg/m³, 20 ppm IOELV, Skin

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as 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.

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· **Respiratory protection:**
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.

· **Hand protection**
Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil 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/face protection**

Tightly sealed goggles

9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**	
· **Physical state**	Liquid
· **Colour:**	According to product specification
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined
· **Melting point/freezing point:**	Undetermined
· **Boiling point or initial boiling point and boiling range**	64 °C
· **Flammability**	Highly flammable.
· **Lower and upper explosion limit**	
· **Lower:**	5.5 Vol %
· **Upper:**	44 Vol %
· **Flash point:**	9 °C
· **Auto-ignition temperature:**	455 °C
· **Decomposition temperature:**	Not determined
· **pH**	Not determined
· **Viscosity:**	
· **Kinematic viscosity**	Not determined
· **Dynamic:**	Not determined
· **Solubility**	
· **water:**	Not miscible or difficult to mix.
· **Partition coefficient n-octanol/water (log value)**	Not determined
· **Vapour pressure at 20 °C:**	100 hPa

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· **Density and/or relative density**	
· **Density:**	Not determined
· **Relative density**	Not determined
· **Vapour density**	Not determined
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent content:**	
· **Organic solvents:**	92.2 %
· **VOC (EC)**	92.42 %
· **Solids content:**	0.8 %
· **Change in condition**	
· **Evaporation rate**	Not determined
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Highly flammable liquid and vapour.
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

10 Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Toxic if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD50	115 mg/kg
Dermal	LD50	287 mg/kg
Inhalative	LC50/4 h	3.42 mg/L

67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
56-23-5 carbon tetrachloride		
Oral	LD50	2,350 mg/kg (rat)
Dermal	LD50	5,070 mg/kg (rat)
67-66-3 trichloromethane		
Oral	LD50	908 mg/kg (rat)
Dermal	LD50	75 mg/kg (rat)
		>20,000 mg/kg (rabbit)
71-43-2 benzene		
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)
71-55-6 1,1,1-trichloroethane		
Oral	LD50	10,300 mg/kg (rat)
74-83-9 bromomethane		
Oral	LD50	214 mg/kg (rat)
Inhalative	LC50/4 h	302 mg/L (rat)
74-87-3 chloromethane		
Oral	LD50	1,800 mg/kg (rat)
Inhalative	LC50/4 h	>21,800 mg/L (rat)
75-00-3 chloroethane		
Inhalative	LC50/4 h	>19,000 mg/L (rat)
75-01-4 vinyl chloride		
Oral	LD50	500 mg/kg (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)

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75-25-2 bromoform		
Oral	LD50	933 mg/kg (rat)
75-27-4 bromodichloromethane		
Oral	LD50	450 mg/kg (mouse)
75-35-4 1,1-dichloroethylene		
Oral	LD50	200 mg/kg (rat)
Inhalative	LC50/4 h	6,350 mg/L (mouse)
75-69-4 trichlorofluoromethane		
Oral	LD50	>15,000 mg/kg (rat)
78-87-5 1,2-dichloropropane		
Oral	LD50	2,196 mg/kg (rat)
Dermal	LD50	8,750 mg/kg (rabbit)
79-00-5 1,1,2-trichloroethane		
Oral	LD50	836 mg/kg (rat)
79-01-6 trichloroethylene		
Oral	LD50	2,402 mg/kg (mouse)
		4,290 mg/kg (rat)
Dermal	LD50	8,450 mg/kg (mouse)
79-34-5 1,1,2,2-tetrachloroethane		
Oral	LD50	200 mg/kg (rat)
87-61-6 1,2,3-trichlorobenzene		
Oral	LD50	1,830 mg/kg (rat)
87-68-3 hexachlorobuta-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 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
		20,000 mg/kg (rabbit)
95-50-1 1,2-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
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)
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)

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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)
99-87-6 p-cymene		
Oral	LD50	4,750 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/L (ATE)
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)
103-65-1 propylbenzene		
Oral	LD50	6,040 mg/kg (rat)
106-46-7 1,4-dichlorobenzene		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.07 mg/L (rat)
106-93-4 1,2-dibromoethane		
Oral	LD50	108 mg/kg (rat)
		55 mg/kg (rabbit)
Dermal	LD50	300 mg/kg (rabbit)
107-06-2 1,2-dichloroethane		
Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2,800 mg/kg (rat)
		2,800 mg/kg (rabbit)
108-88-3 toluene		
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)
108-90-7 chlorobenzene		
Oral	LD50	1,110 mg/kg (rat)
120-82-1 1,2,4-trichlorobenzene		
Oral	LD50	756 mg/kg (rat)
Dermal	LD50	6,139 mg/kg (rat)
127-18-4 tetrachloroethylene		
Oral	LD50	2,629 mg/kg (rat)
Inhalative	LC50/4 h	4,000 mg/L (rat)
630-20-6 1,1,1,2-tetrachloroethane		
Oral	LD50	670 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

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Inhalative	LC50/4 h	2,100 mg/L (rat)
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)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** May cause genetic defects.
· **Carcinogenicity** May cause cancer.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Causes damage to the central nervous system and the visual organs.
· **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**		
108-90-7	chlorobenzene	List II

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12 Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**

· **PBT:**	
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene

· **vPvB:**	
87-68-3	hexachlorobuta-1,3-diene

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (German Regulation) (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.
Harmful to aquatic organisms

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13 Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Dispose of contents/container in accordance with local/regional/national/international regulations.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

· **European waste catalogue**	
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP7	Carcinogenic
HP11	Mutagenic
HP14	Ecotoxic

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **14.1 UN number or ID number**
· **Not Regulated, De minimus Quantities** -
· **ADR, IMDG, IATA** UN1230

· **14.2 UN proper shipping name**
· **ADR** 1230 METHANOL
· **IMDG, IATA** METHANOL

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 3 Flammable liquids.
· **Label** 3+6.1

· **IMDG**

· **Class** 3 Flammable liquids.

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· **Label**	3/6.1
· **IATA**	
	
· **Class**	3 Flammable liquids.
· **Label**	3 (6.1)
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Not applicable
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	336
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **Transport/Additional information:**	
· **ADR**	
· **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
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **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, 3 (6.1), II

15 Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category**
H2 ACUTE TOXIC
P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

87-68-3	hexachlorobuta-1,3-diene	Annex I Part A Annex III Part B Annex IV

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

79-01-6	trichloroethylene	Sunset date: 2016-04-21
107-06-2	1,2-dichloroethane	Sunset date: 2017-11-22

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 2, 3, 5, 28, 29, 32, 34, 35, 36

· **Regulation (EU) No 649/2012**

56-23-5	carbon tetrachloride	Annex I Part 1
67-66-3	trichloromethane	Annex I Part 1
71-43-2	benzene	Annex I Part 1
71-55-6	1,1,1-trichloroethane	Annex I Part 1
74-83-9	bromomethane	Annex I Part 1 Annex I Part 2
75-35-4	1,1-dichloroethylene	Annex I Part 1
79-00-5	1,1,2-trichloroethane	Annex I Part 1
79-34-5	1,1,2,2-tetrachloroethane	Annex I Part 1
87-68-3	hexachlorobuta-1,3-diene	Annex V Part 1
106-93-4	1,2-dibromoethane	Annex I Part 1 Annex I Part 3
107-06-2	1,2-dichloroethane	Annex I Part 1 Annex I Part 3
120-82-1	1,2,4-trichlorobenzene	Annex I Part 1
630-20-6	1,1,1,2-tetrachloroethane	Annex I Part 1
10061-01-5	(Z)-1,3-dichloropropene	Annex I Part 1

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

108-88-3	toluene	3

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

108-88-3	toluene	3

· **REGULATION (EU) 2024/590 on substances that deplete the ozone layer**

56-23-5	carbon tetrachloride	1,1
71-55-6	1,1,1-trichloroethane	0,1

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74-83-9	bromomethane	0,6
74-97-5	bromochloromethane	0,12
75-69-4	trichlorofluoromethane	1
75-71-8	dichlorodifluoromethane	1

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**
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.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**	
79-01-6	trichloroethylene
96-18-4	1,2,3-trichloropropane
107-06-2	1,2-dichloroethane

· **15.2 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.

· **Relevant phrases**

H220 Extremely flammable gas.
H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
H360F May damage fertility.

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H361d Suspected of damaging the unborn child.
H370 Causes damage to organs.
H371 May cause damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H420 Harms public health and the environment by destroying ozone in the upper atmosphere
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** pdl-acg-regulatory-cq@agilent.com
· **Date of previous version:** 22.12.2023
· **Version number of previous version:** 4
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Gas 1A: Flammable gases – Category 1A
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 1: Flammable liquids – Category 1
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1A: Carcinogenicity – Category 1A
Carc. 1B: Carcinogenicity – Category 1B
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Ozone 1: Hazardous to the ozone layer – Category 1

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