

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2024

Revision date 08/24/2024

1 Identification

- **Product identifier**
- **Product Name:** Target Analytes Standard (1X1 mL)
- **Part number:** HCM-625-1
- **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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

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



GHS02



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to the central nervous system and the visual organs.

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Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 Specific treatment (see on this label).
- P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	99.3422%
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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.
- **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 section 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
56-23-5	carbon tetrachloride	1.2 ppm
71-43-2	benzene	52 ppm

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71-55-6	1,1,1-trichloroethane	230 ppm
75-09-2	dichloromethane	200 ppm
75-34-3	1,1-dichloroethane	300 ppm
75-35-4	1,1-dichloroethylene	45 ppm
78-87-5	1,2-dichloropropane	30 ppm
79-00-5	1,1,2-trichloroethane	30 ppm
79-01-6	trichloroethylene	130 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
100-41-4	ethylbenzene	33 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
107-06-2	1,2-dichloroethane	50 ppm
108-38-3	m-xylene	130 ppm
108-88-3	toluene	67 ppm
108-90-7	chlorobenzene	10 ppm
127-18-4	tetrachloroethylene	35 ppm
156-59-2	cis-dichloroethylene	140 ppm
156-60-5	trans-dichloroethylene	280 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
1634-04-4	tert-butyl methyl ether	50 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
56-23-5	carbon tetrachloride	13 ppm
71-43-2	benzene	800 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
75-09-2	dichloromethane	560 ppm
75-34-3	1,1-dichloroethane	670 ppm
75-35-4	1,1-dichloroethylene	500 ppm
78-87-5	1,2-dichloropropane	220 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
79-01-6	trichloroethylene	450 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
100-41-4	ethylbenzene	1100* ppm
106-46-7	1,4-dichlorobenzene	170 ppm
107-06-2	1,2-dichloroethane	200 ppm
108-38-3	m-xylene	920 ppm
108-88-3	toluene	560 ppm
108-90-7	chlorobenzene	150 ppm
127-18-4	tetrachloroethylene	230 ppm
156-59-2	cis-dichloroethylene	500 ppm

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156-60-5	trans-dichloroethylene	1,000 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
1634-04-4	tert-butyl methyl ether	570 ppm
· PAC-3:		
67-56-1	methanol	7200* ppm
56-23-5	carbon tetrachloride	340 ppm
71-43-2	benzene	4000* ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
75-09-2	dichloromethane	6,900 ppm
75-34-3	1,1-dichloroethane	4,000 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
78-87-5	1,2-dichloropropane	2,000 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
79-01-6	trichloroethylene	3,800 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
100-41-4	ethylbenzene	1800* ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
107-06-2	1,2-dichloroethane	300 ppm
108-38-3	m-xylene	2500* ppm
108-88-3	toluene	3700* ppm
108-90-7	chlorobenzene	400 ppm
127-18-4	tetrachloroethylene	1,200 ppm
156-59-2	cis-dichloroethylene	850 ppm
156-60-5	trans-dichloroethylene	1,700 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
1634-04-4	tert-butyl methyl ether	5300* 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.

· Information about storage in one common storage facility: Not required.

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- **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 section 7.
- **Control parameters**

Components with limit values that require monitoring at the workplace:

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

Ingredients with biological limit values:

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.

Exposure controls
Personal protective equipment:
General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not 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

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- **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Alcohol-like
Odor threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)

· Flash point: 9 °C (48.2 °F)

· Flammability (solid, gaseous): Highly flammable.

· Auto igniting: 455 °C (851 °F)

· Decomposition temperature: Not determined.

· Ignition temperature: 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): 0.80257 g/cm³ (6.69745 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

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Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.7 %
VOC content:	99.67 %
	799.9 g/l / 6.68 lb/gal
Solids content:	0.1 %
· 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)

Inhalative LC50/4 h 3.02 mg/L

67-56-1 methanol

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

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

- **Carcinogenic categories**

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

56-23-5	carbon tetrachloride	2B
71-43-2	benzene	1
71-55-6	1,1,1-trichloroethane	2A
75-09-2	dichloromethane	2A
75-35-4	1,1-dichloroethylene	2B
78-87-5	1,2-dichloropropane	1

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79-00-5	1,1,2-trichloroethane	3
79-01-6	trichloroethylene	1
79-34-5	1,1,2,2-tetrachloroethane	2B
95-47-6	o-xylene	3
95-50-1	1,2-dichlorobenzene	3
100-41-4	ethylbenzene	2B
106-42-3	p-xylene	3
106-46-7	1,4-dichlorobenzene	2B
107-06-2	1,2-dichloroethane	2B
108-38-3	m-xylene	3
108-88-3	toluene	3
127-18-4	tetrachloroethylene	2A
541-73-1	1,3-dichlorobenzene	3
1634-04-4	tert-butyl methyl ether	3

· NTP (National Toxicology Program)

56-23-5	carbon tetrachloride	R
71-43-2	benzene	K
75-09-2	dichloromethane	R
79-01-6	trichloroethylene	K
106-46-7	1,4-dichlorobenzene	R
107-06-2	1,2-dichloroethane	R
127-18-4	tetrachloroethylene	R

· OSHA-Ca (Occupational Safety & Health Administration)

71-43-2	benzene
75-09-2	dichloromethane

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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· Results of PBT and vPvB assessment
· PBT: Not applicable.

· vPvB: Not applicable.

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

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13 Disposal considerations

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

14 Transport information

- | | |
|---|--|
| · Not Regulated, De minimis Quantities | - |
| · UN-Number
· DOT, IMDG, IATA | UN1230 |
| · UN proper shipping name
· DOT
· IMDG, IATA | Methanol solution
METHANOL solution |
| · Transport hazard class(es)
· DOT | <div style="display: flex; align-items: center;">  </div> |
| · Class
· Label | 3 Flammable liquids
3, 6.1 |
| · IMDG | <div style="display: flex; align-items: center;">  </div> |
| · Class
· Label | 3 Flammable liquids
3/6.1 |
| · IATA | <div style="display: flex; align-items: center;">  </div> |
| · Class
· Label | 3 Flammable liquids
3 (6.1) |
| · Packing group
· DOT, IMDG, IATA | II |
| · Environmental hazards: | Not applicable. |

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· 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.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 3 (6.1), II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**

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

75-34-3	1,1-dichloroethane
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· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
56-23-5	carbon tetrachloride
71-43-2	benzene
71-55-6	1,1,1-trichloroethane
75-09-2	dichloromethane
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
95-47-6	o-xylene
95-50-1	1,2-dichlorobenzene
100-41-4	ethylbenzene
106-42-3	p-xylene
106-46-7	1,4-dichlorobenzene

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107-06-2	1,2-dichloroethane
108-38-3	m-xylene
108-88-3	toluene
108-90-7	chlorobenzene
127-18-4	tetrachloroethylene
541-73-1	1,3-dichlorobenzene
1634-04-4	tert-butyl methyl ether
10061-02-6	trans-1,3-dichloropropene

· TSCA (Toxic Substances Control Act):

67-56-1	methanol	ACTIVE
56-23-5	carbon tetrachloride	ACTIVE
71-43-2	benzene	ACTIVE
71-55-6	1,1,1-trichloroethane	ACTIVE
75-09-2	dichloromethane	ACTIVE
75-34-3	1,1-dichloroethane	ACTIVE
75-35-4	1,1-dichloroethylene	ACTIVE
78-87-5	1,2-dichloropropane	ACTIVE
79-00-5	1,1,2-trichloroethane	ACTIVE
79-01-6	trichloroethylene	ACTIVE
79-34-5	1,1,2,2-tetrachloroethane	ACTIVE
95-47-6	o-xylene	ACTIVE
95-50-1	1,2-dichlorobenzene	ACTIVE
100-41-4	ethylbenzene	ACTIVE
106-42-3	p-xylene	ACTIVE
106-46-7	1,4-dichlorobenzene	ACTIVE
107-06-2	1,2-dichloroethane	ACTIVE
108-38-3	m-xylene	ACTIVE
108-88-3	toluene	ACTIVE
108-90-7	chlorobenzene	ACTIVE
127-18-4	tetrachloroethylene	ACTIVE
156-59-2	cis-dichloroethylene	ACTIVE
156-60-5	trans-dichloroethylene	ACTIVE
541-73-1	1,3-dichlorobenzene	ACTIVE
1634-04-4	tert-butyl methyl ether	ACTIVE
10061-02-6	trans-1,3-dichloropropene	ACTIVE

· Hazardous Air Pollutants

67-56-1	methanol
56-23-5	carbon tetrachloride
71-43-2	benzene
71-55-6	1,1,1-trichloroethane
75-09-2	dichloromethane

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75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
95-47-6	o-xylene
100-41-4	ethylbenzene
106-42-3	p-xylene
106-46-7	1,4-dichlorobenzene
107-06-2	1,2-dichloroethane
108-38-3	m-xylene
108-88-3	toluene
108-90-7	chlorobenzene
127-18-4	tetrachloroethylene
1634-04-4	tert-butyl methyl ether

· Proposition 65
· Chemicals known to cause cancer:

56-23-5	carbon tetrachloride
71-43-2	benzene
71-55-6	1,1,1-trichloroethane
75-09-2	dichloromethane
75-34-3	1,1-dichloroethane
75-35-4	1,1-dichloroethylene
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
100-41-4	ethylbenzene
106-46-7	1,4-dichlorobenzene
107-06-2	1,2-dichloroethane
127-18-4	tetrachloroethylene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
79-01-6	trichloroethylene

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
71-43-2	benzene
79-01-6	trichloroethylene

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108-88-3 toluene

· Carcinogenic categories
· EPA (Environmental Protection Agency)

56-23-5	carbon tetrachloride	L
71-43-2	benzene	A, K/L
71-55-6	1,1,1-trichloroethane	II
75-09-2	dichloromethane	L
75-34-3	1,1-dichloroethane	C
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
79-00-5	1,1,2-trichloroethane	C
79-01-6	trichloroethylene	CaH
79-34-5	1,1,2,2-tetrachloroethane	L
95-47-6	o-xylene	I
95-50-1	1,2-dichlorobenzene	D
100-41-4	ethylbenzene	D
106-42-3	p-xylene	I
107-06-2	1,2-dichloroethane	B2
108-38-3	m-xylene	I
108-88-3	toluene	II
108-90-7	chlorobenzene	D
127-18-4	tetrachloroethylene	L
156-59-2	cis-dichloroethylene	II
156-60-5	trans-dichloroethylene	II
541-73-1	1,3-dichlorobenzene	D

· TLV (Threshold Limit Value)

56-23-5	carbon tetrachloride	A2
71-43-2	benzene	A1
71-55-6	1,1,1-trichloroethane	A4
75-09-2	dichloromethane	A3
75-34-3	1,1-dichloroethane	A4
75-35-4	1,1-dichloroethylene	A4
78-87-5	1,2-dichloropropane	A4
79-00-5	1,1,2-trichloroethane	A3
79-01-6	trichloroethylene	A2
79-34-5	1,1,2,2-tetrachloroethane	A3
95-47-6	o-xylene	A4
95-50-1	1,2-dichlorobenzene	A4
100-41-4	ethylbenzene	A3
106-42-3	p-xylene	A4
106-46-7	1,4-dichlorobenzene	A3
107-06-2	1,2-dichloroethane	A4

(Contd. on page 15)

Safety Data Sheet acc. to OSHA HCS

Printing date 08/24/2024

Revision date 08/24/2024

Product Name: Target Analytes Standard (1X1 mL)

(Contd. of page 14)

108-38-3	m-xylene	A4
108-88-3	toluene	A4
108-90-7	chlorobenzene	A3
127-18-4	tetrachloroethylene	A3
1634-04-4	tert-butyl methyl ether	A3

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

56-23-5	carbon tetrachloride
71-43-2	benzene
75-09-2	dichloromethane
75-35-4	1,1-dichloroethylene
78-87-5	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
106-46-7	1,4-dichlorobenzene
107-06-2	1,2-dichloroethane
127-18-4	tetrachloroethylene

· **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.

· **Contact:**

· **Date of preparation / last revision** 08/24/2024 / 3

· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

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