

Safety Data Sheet

acc. to OSHA HCS

Revision date: 01/08/2025

1 Identification

· Product identifier

· **Product Name:** USP 467 Class 2 Residual Solvents Standard A (1X1 mL)

· **Part no. :** USPM-467K-1

· Restrictions

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/ product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/ product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

· **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

Carcinogenicity 1B H350 May cause cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

Flammable Liquids 4 H227 Combustible liquid.

· Label elements

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

· Hazard pictograms



GHS08

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· **Signal word** Danger

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

dichloromethane

toluene

tetrahydrofuran

ethylbenzene

· **Hazard statements**

H227 Combustible liquid.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

P210 Keep away from flames and hot surfaces. – No smoking.

P280 Wear protective gloves / protective clothing.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**


Health = 0

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**


Health = *0

Fire = 2

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

67-68-5	dimethyl sulfoxide	92.9744%
110-82-7	cyclohexane	1.762%
67-56-1	methanol	1.3624%
108-88-3	toluene	0.4042%
109-99-9	tetrahydrofuran	0.327%
75-09-2	dichloromethane	0.2725%

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123-91-1	1,4-dioxane	0.1726%
100-41-4	ethylbenzene	0.1671%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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:

67-68-5	dimethyl sulfoxide	150 ppm
110-82-7	cyclohexane	300 ppm
67-56-1	methanol	530 ppm
108-38-3	m-xylene	130 ppm
108-87-2	methylcyclohexane	1200* ppm
156-59-2	cis-dichloroethylene	140 ppm
156-60-5	trans-dichloroethylene	280 ppm
108-88-3	toluene	67 ppm

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109-99-9	tetrahydrofuran	100 ppm
75-09-2	dichloromethane	200 ppm
75-05-8	acetonitrile	13 ppm
123-91-1	1,4-dioxane	17 ppm
100-41-4	ethylbenzene	33 ppm
108-90-7	chlorobenzene	10 ppm

· PAC-2:

67-68-5	dimethyl sulfoxide	290 ppm
110-82-7	cyclohexane	1700* ppm
67-56-1	methanol	2,100 ppm
108-38-3	m-xylene	920 ppm
108-87-2	methylcyclohexane	1700* ppm
156-59-2	cis-dichloroethylene	500 ppm
156-60-5	trans-dichloroethylene	1,000 ppm
108-88-3	toluene	560 ppm
109-99-9	tetrahydrofuran	500 ppm
75-09-2	dichloromethane	560 ppm
75-05-8	acetonitrile	50 ppm
123-91-1	1,4-dioxane	320 ppm
100-41-4	ethylbenzene	1100* ppm
108-90-7	chlorobenzene	150 ppm

· PAC-3:

67-68-5	dimethyl sulfoxide	1,800 ppm
110-82-7	cyclohexane	10000** ppm
67-56-1	methanol	7200* ppm
108-38-3	m-xylene	2500* ppm
108-87-2	methylcyclohexane	10000** ppm
156-59-2	cis-dichloroethylene	850 ppm
156-60-5	trans-dichloroethylene	1,700 ppm
108-88-3	toluene	3700* ppm
109-99-9	tetrahydrofuran	5000* ppm
75-09-2	dichloromethane	6,900 ppm
75-05-8	acetonitrile	150 ppm
123-91-1	1,4-dioxane	760 ppm
100-41-4	ethylbenzene	1800* ppm
108-90-7	chlorobenzene	400 ppm

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7 Handling and storage

· Handling:
· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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- Open and handle receptacle with care.
- **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 section 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

67-68-5 dimethyl sulfoxide

WEEL Long-term value: 250 ppm

110-82-7 cyclohexane

PEL Long-term value: 1050 mg/m³, 300 ppm

REL Long-term value: 1050 mg/m³, 300 ppm

TLV Long-term value: 100 ppm

BEI

67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV Short-term value: 250 ppm

Long-term value: 200 ppm

Skin; BEIc

108-88-3 toluene

PEL Long-term value: 200 ppm

Ceiling limit value: 300; 500* ppm

*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, OTO, A4

109-99-9 tetrahydrofuran

PEL Long-term value: 590 mg/m³, 200 ppm

REL Short-term value: 735 mg/m³, 250 ppm

Long-term value: 590 mg/m³, 200 ppm

TLV Short-term value: 100 ppm

Long-term value: 50 ppm

Skin, A3, BEI

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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: 50 ppm BEI, A3

123-91-1 1,4-dioxane

PEL	Long-term value: 360 mg/m ³ , 100 ppm Skin
REL	Ceiling limit value: 3.6* mg/m ³ , 1* ppm *30-min; See Pocket Guide App. A
TLV	Long-term value: 20 ppm Skin, A3

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3

Ingredients with biological limit values:
110-82-7 cyclohexane

BEI	NIC-50 mg/g creatinine Medium: - Time: end of shift at end of workweek Parameter: NIC-1.2-Cyclohexanediol (nonspecific)
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67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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108-88-3 toluene

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

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109-99-9 tetrahydrofuran

BEI	2 mg/L Medium: urine Time: end of shift Parameter: Tetrahydrofuran
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75-09-2 dichloromethane

BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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100-41-4 ethylbenzene

BEI	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (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.

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

· **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

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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:	189 °C (372.2 °F)
· Flash point:	87 °C (188.6 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto igniting:	270 °C (518 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	1.8 Vol %
Upper:	63 Vol %
· Vapor pressure at 20 °C (68 °F):	0.4 hPa (0.3 mm Hg)
· Density at 20 °C (68 °F):	1.08643 g/cm³ (9.06626 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.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.7 %
VOC content:	99.38 %
	1,079.7 g/l / 9.01 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

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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	172 mg/L
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67-68-5 dimethyl sulfoxide

Oral	LD50	14,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	40,250 mg/L (rat)

110-82-7 cyclohexane

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	13.9 mg/L (rat)

67-56-1 methanol

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

109-99-9 tetrahydrofuran

Oral	LD50	2,500 mg/kg (rat)
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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)

123-91-1 1,4-dioxane

Oral	LD50	5,700 mg/kg (mouse) 4,200 mg/kg (rat)
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Dermal	LD50	7,858 mg/kg (rabbit)
Inhalative	LC50/4 h	46 mg/L (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,354 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/L (rat)

· **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:

· **Carcinogenic categories**

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

108-38-3	m-xylene	3
108-88-3	toluene	3
109-99-9	tetrahydrofuran	2B
75-09-2	dichloromethane	2A
123-91-1	1,4-dioxane	2B
100-41-4	ethylbenzene	2B
106-42-3	p-xylene	3
95-47-6	o-xylene	3

· **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
123-91-1	1,4-dioxane	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

75-09-2	dichloromethane
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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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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, ADN, IMDG, IATA	not regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated
· Transport hazard class(es) · DOT, ADN, IMDG, IATA · Class	not regulated
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

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

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
110-82-7	cyclohexane
67-56-1	methanol
108-38-3	m-xylene
108-88-3	toluene
75-09-2	dichloromethane
75-05-8	acetonitrile

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123-91-1	1,4-dioxane
100-41-4	ethylbenzene
108-90-7	chlorobenzene
106-42-3	p-xylene
95-47-6	o-xylene

· **TSCA (Toxic Substances Control Act):**

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/ product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/ product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

67-56-1	methanol
108-38-3	m-xylene
108-88-3	toluene
75-09-2	dichloromethane
75-05-8	acetonitrile
123-91-1	1,4-dioxane
100-41-4	ethylbenzene
108-90-7	chlorobenzene
106-42-3	p-xylene
95-47-6	o-xylene

· **Proposition 65**

· **Chemicals known to cause cancer:**

109-99-9	tetrahydrofuran
75-09-2	dichloromethane
123-91-1	1,4-dioxane
100-41-4	ethylbenzene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· Chemicals known to cause developmental toxicity:

67-56-1	methanol
108-88-3	toluene

· Carcinogenic categories
· EPA (Environmental Protection Agency)

110-82-7	cyclohexane	I
108-38-3	m-xylene	I
156-59-2	cis-dichloroethylene	II
156-60-5	trans-dichloroethylene	II
108-88-3	toluene	II
109-99-9	tetrahydrofuran	SC
75-09-2	dichloromethane	L
75-05-8	acetonitrile	CBD, D
123-91-1	1,4-dioxane	L
100-41-4	ethylbenzene	D
108-90-7	chlorobenzene	D
106-42-3	p-xylene	I
95-47-6	o-xylene	I

· TLV (Threshold Limit Value)

108-38-3	m-xylene	A4
108-88-3	toluene	A4
109-99-9	tetrahydrofuran	A3
75-09-2	dichloromethane	A3
75-05-8	acetonitrile	A4
123-91-1	1,4-dioxane	A3
100-41-4	ethylbenzene	A3
108-90-7	chlorobenzene	A3
106-42-3	p-xylene	A4
95-47-6	o-xylene	A4

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

75-09-2	dichloromethane
123-91-1	1,4-dioxane

· National regulations:
· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

· **Department issuing SDS:** Document Control / Regulatory

· **Contact:** pdl-acg-regulatory-cq@agilent.com

· **Date of preparation / last revision** 01/08/2025 / 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

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 4: Flammable liquids – Category 4

Carcinogenicity 1B: Carcinogenicity – Category 1B

Toxic to Reproduction 2: Reproductive toxicity – Category 2

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

US