Safety Data Sheet
acc. to OSHA HCS

Revision date: 01/08/2025

*
1 Identification

· **Product identifier**

· **Product Name: Semi-Volatiles Standard (1X1 mL)**

· **Part no. :** SVM-8271-1

· **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

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2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS08 Health hazard

Carcinogenicity 1A	H350 May cause cancer.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.

· **Label elements**

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

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· **Hazard pictograms**

GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
dichloromethane
2-naphthylamine

· **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P260	Do not breathe vapours.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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 = 2
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
Fire = 0
Reactivity = 0

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· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition/information on ingredients

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

· **Dangerous components:**		
75-09-2	dichloromethane	97.3575%
91-59-8	2-naphthylamine	0.0755%

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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:** 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.

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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.

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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 section 13.
Ensure adequate ventilation.

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· **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
53-96-3	2-acetylaminofluorene	1.2 mg/m³
56-49-5	3-methylcholanthrene	0.2 mg/m³
59-89-2	N-nitrosomorpholine	0.85 mg/m³
60-11-7	4-dimethylaminoazobenzene	0.6 mg/m³
62-44-2	phenacetin	7.3 mg/m³
62-50-0	ethyl methanesulfonate	2.1 mg/m³
62-53-3	aniline	8.0 ppm
76-01-7	pentachloroethane	130 mg/m³
82-68-8	quintozene (ISO)	1.5 mg/m³
87-65-0	2,6-dichlorophenol	8.8 mg/m³
88-85-7	dinoseb	0.41 mg/m³
91-59-8	2-naphthylamine	2.2 mg/m³
92-67-1	4-aminobiphenyl	1.5 mg/m³
94-59-7	safrole	5.9 mg/m³
95-53-4	o-toluidine	6 ppm
95-94-3	1,2,4,5-tetrachlorobenzene	0.66 mg/m³
98-86-2	acetophenone	30 ppm
99-35-4	1,3,5-trinitrobenzene	1.5 mg/m³
99-55-8	5-nitro-o-toluidine	3 mg/m³
99-65-0	1,3-dinitrobenzene	3 mg/m³
100-51-6	benzyl alcohol	30 ppm
122-39-4	diphenylamine	30 mg/m³
134-32-7	1-naphthylamine	2 mg/m³
608-93-5	pentachlorobenzene	4.4 mg/m³
1888-71-7	hexachloropropene	0.089 ppm

· **PAC-2:**		
75-09-2	dichloromethane	560 ppm
53-96-3	2-acetylaminofluorene	25 ppm
56-49-5	3-methylcholanthrene	2.3 mg/m³
59-89-2	N-nitrosomorpholine	9.3 mg/m³
60-11-7	4-dimethylaminoazobenzene	6.6 mg/m³
62-44-2	phenacetin	80 mg/m³
62-50-0	ethyl methanesulfonate	23 mg/m³
62-53-3	aniline	12 ppm
76-01-7	pentachloroethane	730 mg/m³

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82-68-8	quintozene (ISO)	28 mg/m³
87-65-0	2,6-dichlorophenol	38 mg/m3
88-85-7	dinoseb	4.5 mg/m³
91-59-8	2-naphthylamine	24 mg/m³
92-67-1	4-aminobiphenyl	2.5 ppm
94-59-7	safrole	64 mg/m³
95-53-4	o-toluidine	8.2 ppm
95-94-3	1,2,4,5-tetrachlorobenzene	7.2 mg/m³
98-86-2	acetophenone	330 ppm
99-35-4	1,3,5-trinitrobenzene	16 mg/m³
99-55-8	5-nitro-o-toluidine	19 mg/m³
99-65-0	1,3-dinitrobenzene	33 mg/m³
100-51-6	benzyl alcohol	52 ppm
122-39-4	diphenylamine	180 mg/m³
134-32-7	1-naphthylamine	22 mg/m³
608-93-5	pentachlorobenzene	36 mg/m3
1888-71-7	hexachloropropene	0.98 ppm

· **PAC-3:**

75-09-2	dichloromethane	6,900 ppm
53-96-3	2-acetylaminofluorene	69 ppm
56-49-5	3-methylcholanthrene	29 mg/m³
59-89-2	N-nitrosomorpholine	56 mg/m³
60-11-7	4-dimethylaminoazobenzene	40 mg/m³
62-44-2	phenacetin	330 mg/m³
62-50-0	ethyl methanesulfonate	140 mg/m³
62-53-3	aniline	20 ppm
76-01-7	pentachloroethane	1,200 mg/m³
82-68-8	quintozene (ISO)	62 mg/m³
87-65-0	2,6-dichlorophenol	230 mg/m3
88-85-7	dinoseb	5.4 mg/m³
91-59-8	2-naphthylamine	140 mg/m³
92-67-1	4-aminobiphenyl	14 ppm
94-59-7	safrole	390 mg/m³
95-53-4	o-toluidine	100 ppm
95-94-3	1,2,4,5-tetrachlorobenzene	340 mg/m³
98-86-2	acetophenone	2000* ppm
99-35-4	1,3,5-trinitrobenzene	54 mg/m³
99-55-8	5-nitro-o-toluidine	110 mg/m³
99-65-0	1,3-dinitrobenzene	200 mg/m³
100-51-6	benzyl alcohol	740 ppm
122-39-4	diphenylamine	220 mg/m³

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134-32-7	1-naphthylamine	130 mg/m³
608-93-5	pentachlorobenzene	210 mg/m3
1888-71-7	hexachloropropene	5.9 ppm

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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.

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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:**	
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
91-59-8 2-naphthylamine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A
TLV	L, A1

· **Ingredients with biological limit values:**	
75-09-2 dichloromethane	
BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)

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

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· **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.
Do not inhale gases / fumes / aerosols.
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:	Colorless
· **Odor:**	Like chlorine
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	-95.1 °C (-139.2 °F)
Boiling point/Boiling range:	40 °C (104 °F)
· **Flash point:**	Not applicable.

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· **Flammability (solid, gaseous):**	Not applicable.
· **Auto igniting:**	605 °C (1,121 °F)
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	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 at 20 °C (68 °F):**	1.3 g/cm³ (10.8485 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water at 20 °C (68 °F):	20 g/l
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	97.7 %
VOC content:	0.30 % 3.0 g/l / 0.03 lb/gal
Solids content:	1.3 %
· **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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
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)
91-59-8 2-naphthylamine		
Oral	LD50	727 mg/kg (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:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
75-09-2	dichloromethane	2A
55-18-5	diethylnitrosoamine	2A
58-90-2	2,3,4,6-tetrachlorophenol	2B
59-89-2	N-nitrosomorpholine	2B
60-11-7	4-dimethylaminoazobenzene	2B
62-44-2	phenacetin	1
62-50-0	ethyl methanesulfonate	2B
62-53-3	aniline	2A
66-27-3	methyl methanesulfonate	2A
76-01-7	pentachloroethane	3
82-68-8	quintozene (ISO)	3
87-65-0	2,6-dichlorophenol	2B
91-59-8	2-naphthylamine	1
92-67-1	4-aminobiphenyl	1
94-59-7	safrole	2B
95-53-4	o-toluidine	1
99-55-8	5-nitro-o-toluidine	3
100-75-4	1-nitrosopiperidine	2B
120-58-1	isosafrole	3
122-39-4	diphenylamine	2B
134-32-7	1-naphthylamine	3
608-93-5	pentachlorobenzene	2B
924-16-3	N-nitrosodibutylamine	2B

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930-55-2	1-nitrosopyrrolidine	2B
10595-95-6	N-Nitrosomethylethylamine	2B

· **NTP (National Toxicology Program)**		
75-09-2	dichloromethane	R
53-96-3	2-acetylaminofluorene	R
55-18-5	diethylnitrosoamine	R
57-97-6	7,12-dimethylbenz[a]anthracene	R
59-89-2	N-nitrosomorpholine	R
60-11-7	4-dimethylaminoazobenzene	R
62-44-2	phenacetin	R
62-50-0	ethyl methanesulfonate	R
66-27-3	methyl methanesulfonate	R
91-59-8	2-naphthylamine	K
92-67-1	4-aminobiphenyl	K
94-59-7	safrole	R
95-53-4	o-toluidine	K
100-75-4	1-nitrosopiperidine	R
924-16-3	N-nitrosodibutylamine	R
930-55-2	1-nitrosopyrrolidine	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
75-09-2	dichloromethane
53-96-3	2-acetylaminofluorene
60-11-7	4-dimethylaminoazobenzene
91-59-8	2-naphthylamine
92-67-1	4-aminobiphenyl
134-32-7	1-naphthylamine

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.

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· **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.

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14 Transport information

· **Not Regulated, De minimis Quantities**	-
· **UN-Number**	
· **DOT, IMDG, IATA**	UN2810
· **UN proper shipping name**	
· **DOT**	Toxic, liquids, organic, n.o.s. (Dichloromethane)
· **IMDG, IATA**	TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE)
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **IMDG, IATA**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Toxic substances
· **Hazard identification number (Kemler code):**	60
· **EMS Number:**	F-A,S-A
· **Segregation groups**	(SGG10) Liquid halogenated hydrocarbons
· **Stowage Category**	A
· **Stowage Code**	SW2 Clear of living quarters.

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· **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: 60 L On cargo aircraft only: 220 L
· **Hazardous substance:**	1000 lbs, 454 kg
· **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 2810 TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE), 6.1, III

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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
88-85-7	dinoseb

· **Section 313 (Specific toxic chemical listings):**	
75-09-2	dichloromethane
53-96-3	2-acetylaminofluorene
55-18-5	diethylnitrosoamine
56-49-5	3-methylcholanthrene
57-97-6	7,12-dimethylbenz[a]anthracene
58-90-2	2,3,4,6-tetrachlorophenol
59-89-2	N-nitrosomorpholine
60-11-7	4-dimethylaminoazobenzene
62-53-3	aniline
76-01-7	pentachloroethane
82-68-8	quintozene (ISO)
87-65-0	2,6-dichlorophenol
88-85-7	dinoseb
91-59-8	2-naphthylamine
92-67-1	4-aminobiphenyl
94-59-7	safrole
95-53-4	o-toluidine
98-86-2	acetophenone

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99-55-8	5-nitro-o-toluidine
99-65-0	1,3-dinitrobenzene
100-75-4	1-nitrosopiperidine
108-39-4	m-cresol
120-58-1	isosafrole
122-39-4	diphenylamine
134-32-7	1-naphthylamine
608-93-5	pentachlorobenzene
924-16-3	N-nitrosodibutylamine

· **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.

75-09-2	dichloromethane	ACTIVE
53-96-3	2-acetylaminofluorene	ACTIVE
55-18-5	diethylnitrosoamine	ACTIVE
56-49-5	3-methylcholanthrene	ACTIVE
57-97-6	7,12-dimethylbenz[a]anthracene	ACTIVE
58-90-2	2,3,4,6-tetrachlorophenol	ACTIVE
60-11-7	4-dimethylaminoazobenzene	ACTIVE
62-44-2	phenacetin	ACTIVE
62-50-0	ethyl methanesulfonate	ACTIVE
62-53-3	aniline	ACTIVE
66-27-3	methyl methanesulfonate	ACTIVE
76-01-7	pentachloroethane	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
87-65-0	2,6-dichlorophenol	ACTIVE
88-85-7	dinoseb	ACTIVE
92-67-1	4-aminobiphenyl	ACTIVE
94-59-7	safrole	ACTIVE
95-53-4	o-toluidine	ACTIVE
95-94-3	1,2,4,5-tetrachlorobenzene	ACTIVE

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98-86-2	acetophenone	ACTIVE
99-35-4	1,3,5-trinitrobenzene	ACTIVE
99-55-8	5-nitro-o-toluidine	ACTIVE
99-65-0	1,3-dinitrobenzene	ACTIVE
100-51-6	benzyl alcohol	ACTIVE
100-75-4	1-nitrosopiperidine	ACTIVE
108-39-4	m-cresol	ACTIVE
120-58-1	isosafrole	ACTIVE
122-39-4	diphenylamine	ACTIVE
134-32-7	1-naphthylamine	ACTIVE
608-93-5	pentachlorobenzene	ACTIVE

· **Hazardous Air Pollutants**

75-09-2	dichloromethane
53-96-3	2-acetylaminofluorene
57-97-6	7,12-dimethylbenz[a]anthracene
59-89-2	N-nitrosomorpholine
60-11-7	4-dimethylaminoazobenzene
62-53-3	aniline
82-68-8	quintozene (ISO)
92-67-1	4-aminobiphenyl
95-53-4	o-toluidine
98-86-2	acetophenone
108-39-4	m-cresol

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
53-96-3	2-acetylaminofluorene
55-18-5	diethylnitrosoamine
56-49-5	3-methylcholanthrene
57-97-6	7,12-dimethylbenz[a]anthracene
59-89-2	N-nitrosomorpholine
60-11-7	4-dimethylaminoazobenzene
62-44-2	phenacetin
62-50-0	ethyl methanesulfonate
62-53-3	aniline
66-27-3	methyl methanesulfonate
91-59-8	2-naphthylamine
92-67-1	4-aminobiphenyl
94-59-7	safrole
95-53-4	o-toluidine
100-75-4	1-nitrosopiperidine

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Product Name: Semi-Volatiles Standard (1X1 mL)

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134-32-7	1-naphthylamine
924-16-3	N-nitrosodibutylamine
930-55-2	1-nitrosopyrrolidine
10595-95-6	N-Nitrosomethylethylamine

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

None of the ingredients is listed.

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

88-85-7	dinoseb
99-65-0	1,3-dinitrobenzene

· **Chemicals known to cause developmental toxicity:**

88-85-7	dinoseb

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
55-18-5	diethylnitrosoamine	B2
62-53-3	aniline	B2
88-85-7	dinoseb	D
98-86-2	acetophenone	D
99-65-0	1,3-dinitrobenzene	D
108-39-4	m-cresol	C
608-93-5	pentachlorobenzene	D
924-16-3	N-nitrosodibutylamine	B2
930-55-2	1-nitrosopyrrolidine	B2
10595-95-6	N-Nitrosomethylethylamine	B2

· **TLV (Threshold Limit Value)**

75-09-2	dichloromethane	A3
62-53-3	aniline	A3
82-68-8	quintozene (ISO)	A4
91-59-8	2-naphthylamine	A1
92-67-1	4-aminobiphenyl	A1
95-53-4	o-toluidine	A3
99-55-8	5-nitro-o-toluidine	A3
122-39-4	diphenylamine	A4

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

75-09-2	dichloromethane
53-96-3	2-acetylaminofluorene
60-11-7	4-dimethylaminoazobenzene
62-53-3	aniline
91-59-8	2-naphthylamine
92-67-1	4-aminobiphenyl
95-53-4	o-toluidine

(Contd. on page 16)

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Product Name: Semi-Volatiles Standard (1X1 mL)

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134-32-7	1-naphthylamine

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation.
No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** pdl-acg-regulatory-cq@agilent.com
· **Date of preparation / last revision** 01/08/2025 / 5
· **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
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
· *** Data compared to the previous version altered.**