

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

### 1 Identification

- **Product identifier**
- **Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**
- **Part number: SMA-301-1**
- **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

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



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Carc. 1B H350 May cause cancer.

STOT SE 1 H370 Causes damage to organs.

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

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

(Contd. on page 2)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 1)

· **Hazard pictograms**· **Signal word** Danger· **Hazard-determining components of labeling:**

methanol  
dichloromethane

· **Hazard statements**

Highly flammable liquid and vapor.  
Toxic if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause cancer.  
Causes damage to organs.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Get medical advice/attention if you feel unwell.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

US

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 2)

- **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:**

75-09-2	dichloromethane	62.323%
67-56-1	methanol	37.177%

### 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.  
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. 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.

(Contd. on page 4)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 3)

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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 item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

75-09-2	dichloromethane	200 ppm
67-56-1	methanol	530 ppm
83-32-9	acenaphthene	3.6 mg/m <sup>3</sup>
208-96-8	acenaphthylene	10 mg/m <sup>3</sup>
91-57-6	2-methylnaphthalene	9 mg/m <sup>3</sup>
91-20-3	naphthalene	15 ppm
205-99-2	benz[e]acephenanthrylene	0.12 mg/m <sup>3</sup>
191-24-2	benzo[ghi]perylene	30 mg/m <sup>3</sup>
218-01-9	chrysene	0.6 mg/m <sup>3</sup>
206-44-0	fluoranthene	8.2 mg/m <sup>3</sup>
86-73-7	fluorene	6.6 mg/m <sup>3</sup>
193-39-5	indeno[1,2,3-cd]pyrene	1.2 mg/m <sup>3</sup>
120-12-7	anthracene	48 mg/m <sup>3</sup>
50-32-8	benzo[a]pyrene	0.6 mg/m <sup>3</sup>
85-01-8	phenanthrene	5.4 mg/m <sup>3</sup>
129-00-0	pyrene	0.15 mg/m <sup>3</sup>
56-55-3	benz[a]anthracene	0.6 mg/m <sup>3</sup>
53-70-3	dibenz[a,h]anthracene	0.093 mg/m <sup>3</sup>

(Contd. on page 5)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 4)

· PAC-2:		
75-09-2	dichloromethane	560 ppm
67-56-1	methanol	2,100 ppm
83-32-9	acenaphthene	40 mg/m <sup>3</sup>
208-96-8	acenaphthylene	110 mg/m <sup>3</sup>
91-57-6	2-methylnaphthalene	54 mg/m <sup>3</sup>
91-20-3	naphthalene	83 ppm
205-99-2	benz[e]acephenanthrylene	1.3 mg/m <sup>3</sup>
191-24-2	benzo[ghi]perylene	330 mg/m <sup>3</sup>
218-01-9	chrysene	12 mg/m <sup>3</sup>
206-44-0	fluoranthene	90 mg/m <sup>3</sup>
86-73-7	fluorene	72 mg/m <sup>3</sup>
193-39-5	indeno[1,2,3-cd]pyrene	13 mg/m <sup>3</sup>
120-12-7	anthracene	530 mg/m <sup>3</sup>
50-32-8	benzo[a]pyrene	120 mg/m <sup>3</sup>
85-01-8	phenanthrene	59 mg/m <sup>3</sup>
129-00-0	pyrene	1.7 mg/m <sup>3</sup>
56-55-3	benz[a]anthracene	120 mg/m <sup>3</sup>
53-70-3	dibenz[a,h]anthracene	1 mg/m <sup>3</sup>

· PAC-3:		
75-09-2	dichloromethane	6,900 ppm
67-56-1	methanol	7200* ppm
83-32-9	acenaphthene	240 mg/m <sup>3</sup>
208-96-8	acenaphthylene	660 mg/m <sup>3</sup>
91-57-6	2-methylnaphthalene	320 mg/m <sup>3</sup>
91-20-3	naphthalene	500 ppm
205-99-2	benz[e]acephenanthrylene	7.9 mg/m <sup>3</sup>
191-24-2	benzo[ghi]perylene	2,000 mg/m <sup>3</sup>
218-01-9	chrysene	69 mg/m <sup>3</sup>
206-44-0	fluoranthene	400 mg/m <sup>3</sup>
86-73-7	fluorene	430 mg/m <sup>3</sup>
193-39-5	indeno[1,2,3-cd]pyrene	79 mg/m <sup>3</sup>
120-12-7	anthracene	3,200 mg/m <sup>3</sup>
50-32-8	benzo[a]pyrene	700 mg/m <sup>3</sup>
85-01-8	phenanthrene	360 mg/m <sup>3</sup>
129-00-0	pyrene	110 mg/m <sup>3</sup>
56-55-3	benz[a]anthracene	700 mg/m <sup>3</sup>
53-70-3	dibenz[a,h]anthracene	2.9 mg/m <sup>3</sup>

(Contd. on page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 5)

### 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.
- **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 item 7.
- **Control parameters**

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

**75-09-2 dichloromethane**

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

**67-56-1 methanol**

PEL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI

· **Ingredients with biological limit values:**

**75-09-2 dichloromethane**

BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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(Contd. on page 7)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 6)

**67-56-1 methanol**

BEI	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

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

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

## 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.

(Contd. on page 8)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 7)

· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	40 °C (104 °F)
· <b>Flash point:</b>	9 °C (48.2 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	455 °C (851 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	5.5 Vol %
<b>Upper:</b>	44 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	360 hPa (270 mm Hg)
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	99.5 %
<b>VOC content:</b>	37.18 %
	371.8 g/l / 3.10 lb/gal
<b>Solids content:</b>	0.5 %
· <b>Other information</b>	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.

US

(Contd. on page 9)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 8)

### 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	2,567 mg/kg (rat)
Dermal	LD50	>3,209 mg/kg (rat)
Inhalative	LC50/4 h	7.63 mg/L

**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)

**67-56-1 methanol**

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

**208-96-8 acenaphthylene**

Oral	LD50	1,760 mg/kg (mouse)
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- **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:  
Toxic  
Irritant

- **Carcinogenic categories**

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

75-09-2	dichloromethane	2A
83-32-9	acenaphthene	3
91-20-3	naphthalene	2B
205-99-2	benz[e]acephenanthrylene	2B
191-24-2	benzo[ghi]perylene	3
207-08-9	benzo[k]fluoranthene	2B
218-01-9	chrysene	2B
206-44-0	fluoranthene	3
86-73-7	fluorene	3
193-39-5	indeno[1,2,3-cd]pyrene	2B
120-12-7	anthracene	3
50-32-8	benzo[a]pyrene	1
85-01-8	phenanthrene	3
129-00-0	pyrene	3

(Contd. on page 10)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 9)

56-55-3	benz[a]anthracene	2B
53-70-3	dibenz[a,h]anthracene	2A
<b>· NTP (National Toxicology Program)</b>		
75-09-2	dichloromethane	R
91-20-3	naphthalene	R
205-99-2	benz[e]acephenanthrylene	R
207-08-9	benzo[k]fluoranthene	R
218-01-9	chrysene	R
206-44-0	fluoranthene	R
86-73-7	fluorene	R
193-39-5	indeno[1,2,3-cd]pyrene	R
120-12-7	anthracene	R
50-32-8	benzo[a]pyrene	R
85-01-8	phenanthrene	R
129-00-0	pyrene	R
56-55-3	benz[a]anthracene	R
53-70-3	dibenz[a,h]anthracene	R
<b>· OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
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.
- **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.

(Contd. on page 11)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2




Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 10)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<b>· Not Regulated, De minimus Quantities</b>	-
<b>· UN-Number</b>	UN1992
<b>· DOT, IMDG, IATA</b>	UN1992
<b>· UN proper shipping name</b>	Flammable liquids, toxic, n.o.s. (Methanol, Dichloromethane)
<b>· DOT</b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL, DICHLOROMETHANE)
<b>· IMDG, IATA</b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL, DICHLOROMETHANE)
<b>· Transport hazard class(es)</b>	
<b>· DOT</b>	
	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3, 6.1
<b>· IMDG</b>	
	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3/6.1
<b>· IATA</b>	
	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3 (6.1)
<b>· Packing group</b>	II
<b>· DOT, IMDG, IATA</b>	II
<b>· Environmental hazards:</b>	Not applicable.
<b>· Special precautions for user</b>	Warning: Flammable liquids
<b>· Danger code (Kemler):</b>	336
<b>· EMS Number:</b>	F-E, S-D
<b>· Segregation groups</b>	Liquid halogenated hydrocarbons
<b>· Stowage Category</b>	B

(Contd. on page 12)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 11)

· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL, DICHLOROMETHANE), 3 (6.1), II

### 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>	
129-00-0	pyrene
· <b>Section 313 (Specific toxic chemical listings):</b>	
75-09-2	dichloromethane
67-56-1	methanol
91-20-3	naphthalene
205-99-2	benz[e]acephenanthrylene
191-24-2	benzo[ghi]perylene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
206-44-0	fluoranthene
193-39-5	indeno[1,2,3-cd]pyrene
120-12-7	anthracene
50-32-8	benzo[a]pyrene
85-01-8	phenanthrene
56-55-3	benz[a]anthracene
53-70-3	dibenz[a,h]anthracene
· <b>TSCA (Toxic Substances Control Act):</b>	
75-09-2	dichloromethane
67-56-1	methanol
83-32-9	acenaphthene
208-96-8	acenaphthylene

(Contd. on page 13)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 12)

91-57-6	2-methylnaphthalene
91-20-3	naphthalene
218-01-9	chrysene
206-44-0	fluoranthene
86-73-7	fluorene
193-39-5	indeno[1,2,3-cd]pyrene
120-12-7	anthracene
50-32-8	benzo[a]pyrene
85-01-8	phenanthrene
129-00-0	pyrene
56-55-3	benz[a]anthracene
53-70-3	dibenz[a,h]anthracene

**· Proposition 65**
**· Chemicals known to cause cancer:**

75-09-2	dichloromethane
91-20-3	naphthalene
205-99-2	benz[e]acephenanthrylene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
193-39-5	indeno[1,2,3-cd]pyrene
50-32-8	benzo[a]pyrene
56-55-3	benz[a]anthracene
53-70-3	dibenz[a,h]anthracene

**· 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.

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

67-56-1	methanol
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**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
83-32-9	acenaphthene	A (oral)
208-96-8	acenaphthylene	D
91-57-6	2-methylnaphthalene	I
91-20-3	naphthalene	C, CBD
205-99-2	benz[e]acephenanthrylene	B2
191-24-2	benzo[ghi]perylene	D
207-08-9	benzo[k]fluoranthene	B2
218-01-9	chrysene	B2
206-44-0	fluoranthene	D

(Contd. on page 14)

## Safety Data Sheet

### acc. to OSHA HCS

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 13)

86-73-7	fluorene	D
193-39-5	indeno[1,2,3-cd]pyrene	B2
120-12-7	anthracene	D
50-32-8	benzo[a]pyrene	CaH
85-01-8	phenanthrene	D
129-00-0	pyrene	D
56-55-3	benz[a]anthracene	B2
53-70-3	dibenz[a,h]anthracene	B2

**· TLV (Threshold Limit Value established by ACGIH)**

75-09-2	dichloromethane	A3
91-57-6	2-methylnaphthalene	A4
91-20-3	naphthalene	A4
205-99-2	benz[e]acephenanthrylene	A2
218-01-9	chrysene	A3
50-32-8	benzo[a]pyrene	A2
56-55-3	benz[a]anthracene	A2

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

75-09-2	dichloromethane	
218-01-9	chrysene	
50-32-8	benzo[a]pyrene	

**· 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.

## 16 Other information

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

· **Date of preparation / last revision** 03/30/2019 / 1

**· Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 15)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 03/30/2019

Version Number 2

Reviewed on 03/30/2019

**Trade name: Aromatic Hydrocarbon Standard (1X1 mL)**

(Contd. of page 14)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

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

Carc. 1B: Carcinogenicity – Category 1B

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

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

US