

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/31/2019

Version Number 4

Reviewed on 03/31/2019

1 Identification

- **Product identifier**
- **Trade name: Base/Neutral Extractables Standard (1X1 mL)**
- **Part number: SVM-102-1**
- **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. 2 H310 Fatal in contact with skin.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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).

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· Hazard pictograms

GHS02 GHS06 GHS07 GHS08

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

benzene
dichloromethane
acetonitrile
nitrobenzene
4-bromophenyl phenyl ether
4-chlorophenyl phenyl ether
anthracene
phenanthrene
benzo[a]pyrene

· Hazard statements

Highly flammable liquid and vapor.
Harmful if swallowed.
Fatal in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

· 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.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Do NOT induce vomiting.
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.

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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.

Get medical advice/attention if you feel unwell.

Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, 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.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene
120-12-7	anthracene

· **vPvB:**

87-68-3	hexachlorobuta-1,3-diene
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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	46.8%
71-43-2	benzene	30.846%
75-05-8	acetonitrile	13.87%
78-59-1	3,5,5-trimethylcyclohex-2-enone	0.193%
111-44-4	bis(2-chloroethyl) ether	0.193%
101-55-3	4-bromophenyl phenyl ether	0.193%
7005-72-3	4-chlorophenyl phenyl ether	0.193%
106-46-7	1,4-dichlorobenzene	0.193%

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121-14-2	2,4-dinitrotoluene	0.193%
606-20-2	2,6-dinitrotoluene	0.193%
117-84-0	dioctyl phthalate	0.193%
118-74-1	hexachlorobenzene	0.193%
87-68-3	hexachlorobuta-1,3-diene	0.193%
67-72-1	hexachloroethane	0.193%
621-64-7	nitrosodipropylamine	0.193%
62-75-9	dimethylnitrosoamine	0.193%
98-95-3	nitrobenzene	0.193%
120-82-1	1,2,4-trichlorobenzene	0.193%
91-20-3	naphthalene	0.193%
129-00-0	pyrene	0.193%
86-73-7	fluorene	0.193%
120-12-7	anthracene	0.193%
85-01-8	phenanthrene	0.193%
206-44-0	fluoranthene	0.193%
53-70-3	dibenz[a,h]anthracene	0.193%
193-39-5	indeno[1,2,3-cd]pyrene	0.193%
218-01-9	chrysene	0.193%
207-08-9	benzo[k]fluoranthene	0.193%
205-99-2	benz[e]acephenanthrylene	0.193%
50-32-8	benzo[a]pyrene	0.193%
56-55-3	benz[a]anthracene	0.193%
191-24-2	benzo[ghi]perylene	0.193%
84-74-2	dibutyl phthalate	0.193%
117-81-7	di-(2-ethylhexyl) phthalate	0.193%
85-68-7	BBP	0.193%
103-33-3	azobenzene	0.193%

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:**

Supply fresh air and to be sure call for a 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:** Immediately call a doctor.

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- **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 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
71-43-2	benzene	52 ppm
75-05-8	acetonitrile	13 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	12 ppm
91-58-7	2-chloronaphthalene	6.2 mg/m ³
111-44-4	bis(2-chloroethyl) ether	10 ppm
108-60-1	bis(2-chloroisopropyl) ether	0.15 ppm
101-55-3	4-bromophenyl phenyl ether	0.33 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	1.5 mg/m ³
95-50-1	1,2-dichlorobenzene	50 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
131-11-3	dimethyl phthalate	15 mg/m ³
121-14-2	2,4-dinitrotoluene	0.6 mg/m ³

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606-20-2	2,6-dinitrotoluene	0.6 mg/m ³
117-84-0	dioctyl phthalate	41 mg/m ³
118-74-1	hexachlorobenzene	0.006 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	1 ppm
77-47-4	hexachlorocyclopentadiene	0.03 ppm
67-72-1	hexachloroethane	3 ppm
621-64-7	nitrosodipropylamine	5.6 mg/m ³
62-75-9	dimethylnitrosoamine	0.082 mg/m ³
86-30-6	nitrosodiphenylamine	5.5 mg/m ³
98-95-3	nitrobenzene	3 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
91-20-3	naphthalene	15 ppm
129-00-0	pyrene	0.15 mg/m ³
86-73-7	fluorene	6.6 mg/m ³
120-12-7	anthracene	48 mg/m ³
85-01-8	phenanthrene	5.4 mg/m ³

· PAC-2:

75-09-2	dichloromethane	560 ppm
71-43-2	benzene	800 ppm
75-05-8	acetonitrile	50 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	33 ppm
91-58-7	2-chloronaphthalene	69 mg/m ³
111-44-4	bis(2-chloroethyl) ether	25 ppm
108-60-1	bis(2-chloroisopropyl) ether	1.6 ppm
101-55-3	4-bromophenyl phenyl ether	3.6 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	35 mg/m ³
95-50-1	1,2-dichlorobenzene	170 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
131-11-3	dimethyl phthalate	1,600 mg/m ³
121-14-2	2,4-dinitrotoluene	12 mg/m ³
606-20-2	2,6-dinitrotoluene	47 mg/m ³
117-84-0	dioctyl phthalate	450 mg/m ³
118-74-1	hexachlorobenzene	14 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	3 ppm
77-47-4	hexachlorocyclopentadiene	0.55 ppm
67-72-1	hexachloroethane	36 ppm
621-64-7	nitrosodipropylamine	62 mg/m ³
62-75-9	dimethylnitrosoamine	0.9 mg/m ³
86-30-6	nitrosodiphenylamine	60 mg/m ³
98-95-3	nitrobenzene	20 ppm

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120-82-1	1,2,4-trichlorobenzene	5 ppm
91-20-3	naphthalene	83 ppm
129-00-0	pyrene	1.7 mg/m ³
86-73-7	fluorene	72 mg/m ³
120-12-7	anthracene	530 mg/m ³
85-01-8	phenanthrene	59 mg/m ³
· PAC-3:		
75-09-2	dichloromethane	6,900 ppm
71-43-2	benzene	4000* ppm
75-05-8	acetonitrile	150 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	200 ppm
91-58-7	2-chloronaphthalene	410 mg/m ³
111-44-4	bis(2-chloroethyl) ether	250 ppm
108-60-1	bis(2-chloroisopropyl) ether	22 ppm
101-55-3	4-bromophenyl phenyl ether	21 mg/m ³
7005-72-3	4-chlorophenyl phenyl ether	210 mg/m ³
95-50-1	1,2-dichlorobenzene	1,000 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
131-11-3	dimethyl phthalate	9300* mg/m ³
121-14-2	2,4-dinitrotoluene	200 mg/m ³
606-20-2	2,6-dinitrotoluene	200 mg/m ³
117-84-0	dioctyl phthalate	11000* mg/m ³
118-74-1	hexachlorobenzene	91 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	10 ppm
77-47-4	hexachlorocyclopentadiene	1 ppm
67-72-1	hexachloroethane	300 ppm
621-64-7	nitrosodipropylamine	95 mg/m ³
62-75-9	dimethylnitrosoamine	10 mg/m ³
86-30-6	nitrosodiphenylamine	360 mg/m ³
98-95-3	nitrobenzene	200 ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm
91-20-3	naphthalene	500 ppm
129-00-0	pyrene	110 mg/m ³
86-73-7	fluorene	430 mg/m ³
120-12-7	anthracene	3,200 mg/m ³
85-01-8	phenanthrene	360 mg/m ³

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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 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 ³ , 50 ppm BEI

71-43-2 benzene

PEL	Short-term value: 15* mg/m ³ , 5* ppm Long-term value: 3* mg/m ³ , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV	Short-term value: 8 mg/m ³ , 2.5 ppm Long-term value: 1.6 mg/m ³ , 0.5 ppm Skin; BEI

75-05-8 acetonitrile

PEL	Long-term value: 70 mg/m ³ , 40 ppm
REL	Long-term value: 34 mg/m ³ , 20 ppm

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TLV	Long-term value: 34 mg/m ³ , 20 ppm Skin
78-59-1 3,5,5-trimethylcyclohex-2-enone	
PEL	Long-term value: 140 mg/m ³ , 25 ppm
REL	Long-term value: 23 mg/m ³ , 4 ppm
TLV	Ceiling limit value: 28 mg/m ³ , 5 ppm
111-44-4 bis(2-chloroethyl) ether	
PEL	Ceiling limit value: 90 mg/m ³ , 15 ppm Skin
REL	Short-term value: 60 mg/m ³ , 10 ppm Long-term value: 30 mg/m ³ , 5 ppm Skin; See Pocket Guide App. A
TLV	Short-term value: 58 mg/m ³ , 10 ppm Long-term value: 29 mg/m ³ , 5 ppm Skin
106-46-7 1,4-dichlorobenzene	
PEL	Long-term value: 450 mg/m ³ , 75 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 60 mg/m ³ , 10 ppm
118-74-1 hexachlorobenzene	
TLV	Long-term value: 0.002 mg/m ³ Skin
87-68-3 hexachlorobuta-1,3-diene	
REL	Long-term value: 0.24 mg/m ³ , 0.02 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 0.21 mg/m ³ , 0.02 ppm Skin
67-72-1 hexachloroethane	
PEL	Long-term value: 10 mg/m ³ , 1 ppm Skin
REL	Long-term value: 10 mg/m ³ , 1 ppm Skin; See Pocket Guide Apps. A and C
TLV	Long-term value: 9.7 mg/m ³ , 1 ppm Skin
62-75-9 dimethylnitrosoamine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A
TLV	Skin; L
98-95-3 nitrobenzene	
PEL	Long-term value: 5 mg/m ³ , 1 ppm Skin
REL	Long-term value: 5 mg/m ³ , 1 ppm Skin

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TLV	Long-term value: 5 mg/m ³ , 1 ppm Skin; BEIm
120-82-1 1,2,4-trichlorobenzene	
REL	Ceiling limit value: 40 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 37 mg/m ³ , 5 ppm
91-20-3 naphthalene	
PEL	Long-term value: 50 mg/m ³ , 10 ppm
REL	Short-term value: 75 mg/m ³ , 15 ppm Long-term value: 50 mg/m ³ , 10 ppm
TLV	Long-term value: 52 mg/m ³ , 10 ppm Skin; BEI
218-01-9 chrysene	
PEL	Long-term value: 0.2 mg/m ³ see Coal Tar Pitch Volatiles
REL	Long-term value: 0.1* mg/m ³ *Cyclohexane-extrble.fraction;PocketGuide Apps.A+C
TLV	L, BEIp
205-99-2 benz[e]acephenanthrylene	
TLV	L; BEIp
50-32-8 benzo[a]pyrene	
PEL	Long-term value: 0.2 mg/m ³ see Coal tar pitch volatiles
REL	Long-term value: 0.1 mg/m ³ Coal tar pitch volatile; Pocket Guide Apps. A+C
TLV	L; BEIp
56-55-3 benz[a]anthracene	
TLV	L; BEIp
84-74-2 dibutyl phthalate	
PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³
117-81-7 di-(2-ethylhexyl) phthalate	
PEL	Long-term value: 5 mg/m ³
REL	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ See Pocket Guide App. A
TLV	Long-term value: 5 mg/m ³
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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71-43-2 benzene

BEI 25 µg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: S-Phenylmercapturic acid (background)

500 µg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: t,t-Muconic acid (background)

98-95-3 nitrobenzene

BEI 5 mg/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Total p-nitrophenol (nonspecific)

1.5 % of hemoglobin
 Medium: blood
 Time: end of shift
 Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

218-01-9 chrysene

BEI -
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

205-99-2 benz[e]acephenanthrylene

BEI -
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

50-32-8 benzo[a]pyrene

BEI -
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

56-55-3 benz[a]anthracene

BEI -
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

· **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.

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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.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	40 °C (104 °F)

Flash point: -11 °C (12.2 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 525 °C (977 °F)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· Explosion limits:	
Lower:	1.2 Vol %
Upper:	22 Vol %
· Vapor pressure at 20 °C (68 °F):	360 hPa (270 mm Hg)
· Density:	Not determined.
· 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:	78.4 %
VOC content:	31.62 %
	316.2 g/l / 2.64 lb/gal
Solids content:	0.0 %
· 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)

Oral	LD50	1,508 mg/kg
Dermal	LD50	>147 mg/kg
Inhalative	LC50/4 h	>126 mg/L

75-09-2 dichloromethane

Oral	LD50	1,600 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/L (rat)
71-43-2 benzene		
Oral	LD50	3,340 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse) >8,260 mg/kg (rabbit)
Inhalative	LC50/4 h	9,980 mg/L (mouse)
75-05-8 acetonitrile		
Oral	LD50	1,320 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3,587 mg/L (mouse)
78-59-1 3,5,5-trimethylcyclohex-2-enone		
Oral	LD50	1,870 mg/kg (rat)
Dermal	LD50	1,200 mg/kg (rabbit)
Inhalative	LC50/4 h	7,000 mg/L (rat)
111-44-4 bis(2-chloroethyl) ether		
Oral	LD50	75 mg/kg (rat)
Dermal	LD50	90 mg/kg (rabbit)
Inhalative	LC50/4 h	330 mg/L (rat)
95-50-1 1,2-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
106-46-7 1,4-dichlorobenzene		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.07 mg/L (rat)
121-14-2 2,4-dinitrotoluene		
Oral	LD50	268 mg/kg (rat)
606-20-2 2,6-dinitrotoluene		
Oral	LD50	177 mg/kg (rat)
117-84-0 dioctyl phthalate		
Oral	LD50	47,000 mg/kg (rat)
118-74-1 hexachlorobenzene		
Oral	LD50	10,000 mg/kg (rat)
Inhalative	LC50/4 h	3,600 mg/L (rat)
87-68-3 hexachlorobuta-1,3-diene		
Oral	LD50	82 mg/kg (rat)
Dermal	LD50	100 mg/kg (rabbit)
Inhalative	LC50/4 h	370 mg/L (mouse)
77-47-4 hexachlorocyclopentadiene		
Oral	LD50	315 mg/kg (rat)

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Dermal	LD50	430 mg/kg (rabbit)
Inhalative	LC50/4 h	2 mg/L (rat)
67-72-1 hexachloroethane		
Dermal	LD50	32,000 mg/kg (rabbit)
621-64-7 nitrosodipropylamine		
Oral	LD50	480 mg/kg (rat)
62-75-9 dimethylnitrosoamine		
Oral	LD50	37 mg/kg (rat)
Inhalative	LC50/4 h	78 mg/L (rat)
98-95-3 nitrobenzene		
Oral	LD50	390 mg/kg (rat)
Dermal	LD50	2,100 mg/kg (rat)
Inhalative	LC50/4 h	556 mg/L (rat)
120-82-1 1,2,4-trichlorobenzene		
Oral	LD50	756 mg/kg (rat)
Dermal	LD50	6,139 mg/kg (rat)
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat) 20,000 mg/kg (rabbit)
129-00-0 pyrene		
Oral	LD50	2,700 mg/kg (rat)
Inhalative	LC50/4 h	170 mg/L (rat)
85-01-8 phenanthrene		
Oral	LD50	700 mg/kg (mouse)
206-44-0 fluoranthene		
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	3,180 mg/kg (rabbit)
208-96-8 acenaphthylene		
Oral	LD50	1,760 mg/kg (mouse)
84-74-2 dibutyl phthalate		
Oral	LD50	6,300 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rabbit)
Inhalative	LC50/4 h	15.68 mg/L (rat)
117-81-7 di-(2-ethylhexyl) phthalate		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rat) 25,000 mg/kg (rabbit)
85-68-7 BBP		
Oral	LD50	2,330 mg/kg (rat)
Dermal	LD50	6,700 mg/kg (rabbit)

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Inhalative	LC50/4 h	>6.7 mg/L (rat)
103-33-3 azobenzene		
Oral	LD50	1,000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

The product can cause inheritable damage.

- **Carcinogenic categories**

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

75-09-2	dichloromethane	2A
71-43-2	benzene	1
111-44-4	bis(2-chloroethyl) ether	3
108-60-1	bis(2-chloroisopropyl) ether	3
95-50-1	1,2-dichlorobenzene	3
541-73-1	1,3-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
121-14-2	2,4-dinitrotoluene	2B
606-20-2	2,6-dinitrotoluene	2B
118-74-1	hexachlorobenzene	2B
87-68-3	hexachlorobuta-1,3-diene	3
67-72-1	hexachloroethane	2B
621-64-7	nitrosodipropylamine	2B
62-75-9	dimethylnitrosoamine	2A
86-30-6	nitrosodiphenylamine	3
98-95-3	nitrobenzene	2B
91-20-3	naphthalene	2B
129-00-0	pyrene	3
86-73-7	fluorene	3
120-12-7	anthracene	3
85-01-8	phenanthrene	3
206-44-0	fluoranthene	3
83-32-9	acenaphthene	3
53-70-3	dibenz[a,h]anthracene	2A
193-39-5	indeno[1,2,3-cd]pyrene	2B
218-01-9	chrysene	2B
207-08-9	benzo[k]fluoranthene	2B
205-99-2	benz[e]acephenanthrylene	2B

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50-32-8	benzo[a]pyrene	1
56-55-3	benz[a]anthracene	2B

· NTP (National Toxicology Program)

75-09-2	dichloromethane	R
71-43-2	benzene	K
106-46-7	1,4-dichlorobenzene	R
118-74-1	hexachlorobenzene	R
67-72-1	hexachloroethane	R
621-64-7	nitrosodipropylamine	R
62-75-9	dimethylnitrosoamine	R
98-95-3	nitrobenzene	R
91-20-3	naphthalene	R
129-00-0	pyrene	R
86-73-7	fluorene	R
120-12-7	anthracene	R
85-01-8	phenanthrene	R
206-44-0	fluoranthene	R
53-70-3	dibenz[a,h]anthracene	R
193-39-5	indeno[1,2,3-cd]pyrene	R
218-01-9	chrysene	R
207-08-9	benzo[k]fluoranthene	R
205-99-2	benz[e]acephenanthrylene	R
50-32-8	benzo[a]pyrene	R
56-55-3	benz[a]anthracene	R
117-81-7	di-(2-ethylhexyl) phthalate	R

· OSHA-Ca (Occupational Safety & Health Administration)

75-09-2	dichloromethane	
71-43-2	benzene	
62-75-9	dimethylnitrosoamine	

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.

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· Results of PBT and vPvB assessment
· PBT:

87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene
120-12-7	anthracene

· vPvB:

87-68-3	hexachlorobuta-1,3-diene
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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.

14 Transport information

· Not Regulated, De minimus Quantities -

· UN-Number
· DOT, IMDG, IATA UN1992

· UN proper shipping name
· DOT Flammable liquids, toxic, n.o.s. (Benzene, Acetonitrile)
· IMDG FLAMMABLE LIQUID, TOXIC, N.O.S. (BENZENE, ACETONITRILE), MARINE POLLUTANT
· IATA FLAMMABLE LIQUID, TOXIC, N.O.S. (BENZENE, ACETONITRILE)

· Transport hazard class(es)
· DOT

· Class 3 Flammable liquids

· Label 3, 6.1

· IMDG

· Class 3 Flammable liquids

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· Label	3/6.1
· IATA	
 	
· Class	3 Flammable liquids
· Label	3 (6.1)
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: benzo[a]pyrene
· Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	336
· EMS Number:	F-E,S-D
· Segregation groups	Liquid halogenated hydrocarbons
· 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 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (BENZENE, ACETONITRILE), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

111-44-4	bis(2-chloroethyl) ether
77-47-4	hexachlorocyclopentadiene
62-75-9	dimethylnitrosoamine
98-95-3	nitrobenzene

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129-00-0	pyrene
· Section 313 (Specific toxic chemical listings):	
75-09-2	dichloromethane
71-43-2	benzene
75-05-8	acetonitrile
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloroisopropyl) ether
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
131-11-3	dimethyl phthalate
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
118-74-1	hexachlorobenzene
87-68-3	hexachlorobuta-1,3-diene
77-47-4	hexachlorocyclopentadiene
67-72-1	hexachloroethane
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-30-6	nitrosodiphenylamine
98-95-3	nitrobenzene
120-82-1	1,2,4-trichlorobenzene
91-20-3	naphthalene
120-12-7	anthracene
85-01-8	phenanthrene
206-44-0	fluoranthene
53-70-3	dibenz[a,h]anthracene
193-39-5	indeno[1,2,3-cd]pyrene
218-01-9	chrysene
207-08-9	benzo[k]fluoranthene
205-99-2	benz[e]acephenanthrylene
50-32-8	benzo[a]pyrene

· TSCA (Toxic Substances Control Act):

75-09-2	dichloromethane
71-43-2	benzene
75-05-8	acetonitrile
78-59-1	3,5,5-trimethylcyclohex-2-enone
91-58-7	2-chloronaphthalene
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloroisopropyl) ether
101-55-3	4-bromophenyl phenyl ether

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7005-72-3	4-chlorophenyl phenyl ether
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
131-11-3	dimethyl phthalate
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
117-84-0	dioctyl phthalate
118-74-1	hexachlorobenzene
87-68-3	hexachlorobuta-1,3-diene
77-47-4	hexachlorocyclopentadiene
67-72-1	hexachloroethane
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-30-6	nitrosodiphenylamine
98-95-3	nitrobenzene
120-82-1	1,2,4-trichlorobenzene
91-20-3	naphthalene
129-00-0	pyrene
86-73-7	fluorene
120-12-7	anthracene
85-01-8	phenanthrene

· TSCA new (21st Century Act): (Substances not listed)

101-55-3	4-bromophenyl phenyl ether
7005-72-3	4-chlorophenyl phenyl ether
87-68-3	hexachlorobuta-1,3-diene
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-73-7	fluorene
53-70-3	dibenz[a,h]anthracene
218-01-9	chrysene
207-08-9	benzo[k]fluoranthene
205-99-2	benz[e]acephenanthrylene
56-55-3	benz[a]anthracene
191-24-2	benzo[ghi]perylene
103-33-3	azobenzene

· Proposition 65
· Chemicals known to cause cancer:

75-09-2	dichloromethane
71-43-2	benzene
111-44-4	bis(2-chloroethyl) ether

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108-60-1	bis(2-chloroisopropyl) ether
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
118-74-1	hexachlorobenzene
87-68-3	hexachlorobuta-1,3-diene
67-72-1	hexachloroethane
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-30-6	nitrosodiphenylamine
98-95-3	nitrobenzene
91-20-3	naphthalene
53-70-3	dibenz[a,h]anthracene
193-39-5	indeno[1,2,3-cd]pyrene
218-01-9	chrysene
207-08-9	benzo[k]fluoranthene
205-99-2	benz[e]acephenanthrylene
50-32-8	benzo[a]pyrene
56-55-3	benz[a]anthracene
117-81-7	di-(2-ethylhexyl) phthalate
103-33-3	azobenzene

· Chemicals known to cause reproductive toxicity for females:

84-74-2	dibutyl phthalate
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· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
98-95-3	nitrobenzene
84-74-2	dibutyl phthalate
117-81-7	di-(2-ethylhexyl) phthalate

· Chemicals known to cause developmental toxicity:

71-43-2	benzene
118-74-1	hexachlorobenzene
84-74-2	dibutyl phthalate
117-81-7	di-(2-ethylhexyl) phthalate
85-68-7	BBP

· Carcinogenic categories
· EPA (Environmental Protection Agency)

75-09-2	dichloromethane	L
71-43-2	benzene	A, K/L
75-05-8	acetonitrile	CBD, D

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78-59-1	3,5,5-trimethylcyclohex-2-enone	C
111-44-4	bis(2-chloroethyl) ether	B2
101-55-3	4-bromophenyl phenyl ether	D
95-50-1	1,2-dichlorobenzene	D
541-73-1	1,3-dichlorobenzene	D
131-11-3	dimethyl phthalate	D
118-74-1	hexachlorobenzene	B2
87-68-3	hexachlorobuta-1,3-diene	C
77-47-4	hexachlorocyclopentadiene	E, NL
67-72-1	hexachloroethane	L
621-64-7	nitrosodipropylamine	B2
62-75-9	dimethylnitrosoamine	B2
86-30-6	nitrosodiphenylamine	B2
98-95-3	nitrobenzene	L
120-82-1	1,2,4-trichlorobenzene	D
91-20-3	naphthalene	C, CBD
129-00-0	pyrene	D
86-73-7	fluorene	D
120-12-7	anthracene	D
85-01-8	phenanthrene	D
206-44-0	fluoranthene	D
83-32-9	acenaphthene	A (oral)
208-96-8	acenaphthylene	D
53-70-3	dibenz[a,h]anthracene	B2
193-39-5	indeno[1,2,3-cd]pyrene	B2
218-01-9	chrysene	B2
207-08-9	benzo[k]fluoranthene	B2

· TLV (Threshold Limit Value established by ACGIH)

75-09-2	dichloromethane	A3
71-43-2	benzene	A1
75-05-8	acetonitrile	A4
78-59-1	3,5,5-trimethylcyclohex-2-enone	A3
111-44-4	bis(2-chloroethyl) ether	A4
95-50-1	1,2-dichlorobenzene	A4
106-46-7	1,4-dichlorobenzene	A3
118-74-1	hexachlorobenzene	A3
87-68-3	hexachlorobuta-1,3-diene	A3
77-47-4	hexachlorocyclopentadiene	A4
67-72-1	hexachloroethane	A3
62-75-9	dimethylnitrosoamine	A3
98-95-3	nitrobenzene	A3

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91-20-3	naphthalene	A4
218-01-9	chrysene	A3
205-99-2	benz[e]acephenanthrylene	A2
50-32-8	benzo[a]pyrene	A2
56-55-3	benz[a]anthracene	A2
117-81-7	di-(2-ethylhexyl) phthalate	A3
84-66-2	diethyl phthalate	A4

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

75-09-2	dichloromethane	
71-43-2	benzene	
111-44-4	bis(2-chloroethyl) ether	
106-46-7	1,4-dichlorobenzene	
121-14-2	2,4-dinitrotoluene	
87-68-3	hexachlorobuta-1,3-diene	
67-72-1	hexachloroethane	
62-75-9	dimethylnitrosoamine	
218-01-9	chrysene	
50-32-8	benzo[a]pyrene	
117-81-7	di-(2-ethylhexyl) phthalate	

· 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: regulatory@ultrasci.com

· Date of preparation / last revision 03/31/2019 / 3

· 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

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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
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1A: Carcinogenicity – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1

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

US