

Revision date 08/23/2024

1 Identification

· Product identifier

· Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

· Part number: RGO-711-1

· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:
 Agilent Technologies, Inc.
 5301 Stevens Creek Blvd.
 Santa Clara, CA 95051 USA

· Information department:

Telephone: 800-227-9770

e-mail: pdl-msds author@agilent.com

· Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Germ Cell Mutagenicity 1B	H340	May cause genetic defects.
Carcinogenicity 1A	H350	May cause cancer.
Toxic to Reproduction 2	H361	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 1	Н372-Н373	Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure. May cause

and the hematopoietic system through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2 H315 Causes skin irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

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

 (Contd. on page 2)

- 110



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 1)

· Hazard pictograms







GHS07

· Signal word Danger

· Hazard-determining components of labeling:

n-hexane ethylbenzene benzene toluene

Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation. H340 May cause genetic defects.

May cause cancer. H350

H361 Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness. H336

H372-H373 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P260 Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. P280 Ground/bond container and receiving equipment. P240 Use only non-sparking tools. P242 P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area. P201 Obtain special instructions before use.

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

P301+P310 If swallowed: Immediately call a poison center/doctor.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

Specific treatment (see on this label). P321

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell. P312

P308+P313 IF exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. P332+P313 P314 Get medical advice/attention if you feel unwell.

P331 Do NOT induce vomiting.

In case of fire: Use CO2, powder or water spray to extinguish. P370+P378 Take off contaminated clothing and wash it before reuse. P362+P364

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

(Contd. on page 3)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 2)

P501

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*1 Health = *1 Fire = 3

- · 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.

_	us components:	
95-93-2	1,2,4,5-tetramethylbenzene	13.7908%
110-54-3	n-hexane	13.4181%
108-88-3	toluene	10.1813%
112-40-3	dodecane	9.547%
111-65-9		9.05%
540-84-1	2,2,4-trimethylpentane	8.6184%
124-18-5	decane	6.539%
95-63-6	1,2,4-trimethylbenzene	5.8132%
142-82-5	heptane	5.6693%
	o-xylene	5.6628%
108-38-3	m-xylene	5.6628%
100-41-4	ethylbenzene	4.9043%
71-43-2	benzene	1.143%

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.

(Contd. on page 4)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 3)

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

PAC-1:		
95-93-2	1,2,4,5-tetramethylbenzene	20 mg/m^3
110-54-3	n-hexane	260 ppm
108-88-3	toluene	67 ppm
112-40-3	dodecane	1.7 ppm
111-65-9	octane	230 ppm
540-84-1	2,2,4-trimethylpentane	230 ppm
124-18-5	decane	6.6 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
142-82-5	heptane	500 ppm
108-38-3	m-xylene	130 ppm
100-41-4	ethylbenzene	33 ppm



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

71-43-2	benzene	52 ppr
PAC-2:		·
95-93-2	1,2,4,5-tetramethylbenzene	220 mg/
110-54-3	n-hexane	2900* p
108-88-3	toluene	560 ppn
112-40-3	dodecane	1.3 ppm
111-65-9	octane	385 ppn
540-84-1	2,2,4-trimethylpentane	830 ppn
124-18-5	decane	73 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppn
142-82-5	heptane	830 ppn
108-38-3	m-xylene	920 ppn
100-41-4	ethylbenzene	1100* p
71-43-2	benzene	800 ppn
PAC-3:		,
95-93-2	1,2,4,5-tetramethylbenzene	1,300 mg
110-54-3	n-hexane	8600** pj
108-88-3	toluene	3700* pp
112-40-3	dodecane	7.9 ppm
111-65-9	octane	5000** p
540-84-1	2,2,4-trimethylpentane	5000* pp
124-18-5	decane	440 ppm
95-63-6	3-6 1,2,4-trimethylbenzene	
142-82-5	2-5 heptane	
	m-xylene	2500* pp
100-41-4	4 ethylbenzene 1	

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.

(Contd. on page 6)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 5)

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

110-5	4-3 n-hexane		
PEL	Long-term value: 1800 mg/m ³ , 500 ppm		
REL Long-term value: 180 mg/m³, 50 ppm			
TLV	Long-term value: 50 ppm Skin; BEI		
108-8	8-3 toluene		
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift		
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm		
TLV	Long-term value: 20 ppm BEI, OTO, A4		
111-6	5-9 octane		
PEL	Long-term value: 2350 mg/m³, 500 ppm n-Octane only		
REL	Long-term value: 350 mg/m³, 75 ppm Ceiling limit value: 1800* mg/m³, 385* ppm *15 min		
TLV	Long-term value: 300 ppm		
540-8	4-1 2,2,4-trimethylpentane		
TLV	Long-term value: 300 ppm		
95-63	6-6 1,2,4-trimethylbenzene		
REL	Long-term value: 125 mg/m³, 25 ppm		
TLV	Long-term value: 10 ppm A4		
142-8	2-5 heptane		
PEL	Long-term value: 2000 mg/m³, 500 ppm		
REL	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min		

(Contd. on page 7)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

		td. of p
TLV	Short-term value: 500 ppm	
	Long-term value: 400 ppm	
	7-6 o-xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, A4	
108-3	88-3 m-xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm	
REL	Short-term value: 655 mg/m ³ , 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm	
	BEI, A4	
100-4	1-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm	
	OTO, BEI, A3	
71-43	3-2 benzene	
PEL	Short-term value: 15* mg/m³, 5* ppm	
	Long-term value: 3* mg/m³, 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	Long-term value: 0.02 ppm	
	Skin; BEI, A1	
	edients with biological limit values:	
110-5	54-3 n-hexane	
	0.5 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: 2.5-Hexanedione without hydrolysis	

US



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 7)

108-88-3 toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

95-47-6 o-xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

108-38-3 m-xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.15 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

71-43-2 benzene

BEI 25 μg/g creatinine

Medium: urine

Time: end of shift Parameter

Parameter: S-Phenylmercapturic acid (background

500 μg/g creatinine Medium: urine Time: end of shift

Parameter: t,t-Muconic acid (background)

- · 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 skin.

(Contd. on page 9)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 8)

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

T C 4.			1		4.
· Information	on basic	nnvsical	ana a	chemical	nronerties

· 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:

Boiling point/Boiling range: 69 °C (156.2 °F) • **Flash point:** -22 °C (-7.6 °F)

• Flammability (solid, gaseous): Highly flammable.

· Auto igniting: $200 \, ^{\circ}\text{C} \, (392 \, ^{\circ}\text{F})$

Decomposition temperature: Not determined.
 Ignition temperature: Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

Undetermined.

(Contd. on page 10)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

	(Contd. of page
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.4 Vol %
· Vapor pressure at 20 °C (68 °F):	110 hPa (82.5 mm Hg)
· Density at 20 °C (68 °F):	0.7827 g/cm³ (6.53163 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	76.7 %
VOC content:	76.66 %
	600.0 g/l / 5.01 lb/gal
· 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 tox	icity:	
· LD/LC50	values tha	nt are relevant for classification:
ATE (Acu	ite Toxicit	y Estimate)
Dermal	LD50	3,453 mg/kg
Inhalative	LC50/4 h	>39.7 mg/L
95-93-2 1,	2,4,5-tetra	amethylbenzene
Oral	LD50	6,989 mg/kg (rat)
110-54-3	n-hexane	
Oral	LD50	5,000 mg/kg (rat)
	•	(Contd. on page 11)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

			(Contd. of page
Dermal	LD50	3,000 mg/kg (rabbit)	
108-88-3 t	oluene		
Oral	LD50	5,580 mg/kg (rat)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 h	5,320 mg/L (mouse)	
		28.1 mg/L (rat)	
112-40-3 c	lodecane		
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>5.6 mg/L (rat)	
540-84-1 2	,2,4-trime	thylpentane	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>33.52 mg/L (rat)	
124-18-5 d	lecane		
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	72.3 mg/L (mouse)	
95-63-6 1,	2,4-trimet	hylbenzene	
Oral	LD50	6,000 mg/kg (rat)	
142-82-5 h	-		
Inhalative	LC50/4 h	103,000 mg/L (rat)	
95-47-6 o-	xylene		
Oral	LD50	5,000 mg/kg (rat)	
Inhalative	LC50/4 h	18,800 mg/L (rat)	
108-38-3 r	n-xylene		
Oral	LD50	6,602 mg/kg (rat)	
Dermal	LD50	12,126 mg/kg (rabbit)	
Inhalative	LC50/4 h	6,700 mg/L (rat)	
100-41-4 е	thylbenze	ne	
Oral	LD50	3,500 mg/kg (rat)	
	LD50	15,354 mg/kg (rabbit)	
		17.2 mg/L (rat)	
71-43-2 be			
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)	

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

(Contd. on page 12)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 11)

· Additional toxicological information:

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

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (In	ternational Agency for Research on Cancer)	
108-88-3	toluene	3
95-47-6	o-xylene	3
108-38-3	m-xylene	3
100-41-4	ethylbenzene	2B
71-43-2	benzene	1
· NTP (Na	tional Toxicology Program)	
71-43-2 1	penzene	K
· OSHA-C	a (Occupational Safety & Health Administration)	
71-43-2 1	penzene	

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.
- · 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.

IIC



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

(Contd. of page 12)

Transport information	
Not Regulated, De minimis Quantities	<u> </u>
· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name · DOT · IMDG	Flammable liquids, n.o.s. (Hexanes, Octanes) FLAMMABLE LIQUID, N.O.S. (HEXANES, OCTANES), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (HEXANES, OCTANES)
· Transport hazard class(es)	
DOT	
Class Label	3 Flammable liquids 3
·IMDG	
W Y	
· Class	3 Flammable liquids
· Label	3
·IATA	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	П
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: octar 2,2,4-trimethylpentane Yes (DOT) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler coe EMS Number: Stowage Category	Warning: Flammable liquids

Not applicable.



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 13) · Transport/Additional information: · DOT · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L Special marking with the symbol (fish and tree). · Remarks: · 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 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES,

OCTANES), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

110-54-3 n-hexane

108-88-3 toluene

95-63-6 1,2,4-trimethylbenzene

95-47-6 o-xylene

108-38-3 m-xylene

100-41-4 ethylbenzene

71-43-2 benzene

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

110-54-3 n-hexane

108-88-3 toluene

540-84-1 2,2,4-trimethylpentane

95-47-6 o-xylene

108-38-3 m-xylene

100-41-4 ethylbenzene

71-43-2 benzene

Proposition 65

· Chemicals known to cause cancer:

100-41-4 ethylbenzene

71-43-2 benzene

(Contd. on page 15)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 14)

	the ingredients is listed.	
	ls known to cause reproductive toxicity for males:	
110-54-3	n-hexane	
71-43-2	benzene	
Chemica	ls known to cause developmental toxicity:	
108-88-3	toluene	
71-43-2	benzene	
Carcinos	genic categories	
	vironmental Protection Agency)	
110-54-3	n-hexane	II
108-88-3	toluene	II
540-84-1	2,2,4-trimethylpentane	II
95-63-6	1,2,4-trimethylbenzene	II
142-82-5	heptane	D
95-47-6	o-xylene	I
108-38-3	m-xylene	I
100-41-4	ethylbenzene	D
100 .1 .	benzene	Α, Ι

12 (111 001014 211110)		
108-88-3	toluene	A4
95-47-6	o-xylene	A4
108-38-3	m-xylene	A4
	ethylbenzene	A3
71-43-2	benzene	A1

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

71-43-2 benzene

- · 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 08/23/2024 / 3

(Contd. on page 16)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: ASTM Surrogate Base Gasoline (1X1 mL)

(Contd. of page 15)

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Skin Irritation 2: Skin corrosion/irritation – Category 2

Germ Cell Mutagenicity 1B: Germ cell mutagenicity - Category 1B

Carcinogenicity 1A: Carcinogenicity - Category 1A

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1

Aspiration Hazard 1: Aspiration hazard - Category 1

* Data compared to the previous version altered.

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