

Printing date 07/28/2021 Review date 07/28/2021

1 Identification

- · Product identifier
- · Trade name: LC Standard-PAH Analyte Mix
- · Article number N9334000
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com 203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Flame

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



Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



Health hazard

Carc. 2 H351 Suspected of causing cancer.



Acute Tox. 4 H312 Harmful in contact with skin.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02, GHS06, GHS07, GHS08
- · Signal word Danger
- Hazard-determining components of labeling: acetonitrile acenaphthylene

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· Hazard statements

H225 Highly flammable liquid and vapor.

H312 Harmful in contact with skin.

H331 Toxic if inhaled.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

· Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
D240	Crownd/bond container and receiving equipment

Ground/bond container and receiving equipment. P240

P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

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

P321 Specific treatment (see on this label).

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

Take off contaminated clothing and wash it before reuse. P362+P364 If eye irritation persists: Get medical advice/attention. P337+P313 *In case of fire: Use for extinction: CO2, powder or water spray.* P370+P378

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

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

P405 Store locked up.

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

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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· Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

	characterization: Mixtures on: Mixture of the substances listed below with nonhazardous additions.	
	is components:	
75-05-8	acetonitrile Flam. Liq. 2, H225 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2A, H319	99.4661
91-20-3	naphthalene Carc. 2, H351 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302 Flam. Liq. 4, H227	0.1%
208-96-8	acenaphthylene Acute Tox. 1, H310; Acute Tox. 1, H330	0.1%
53-70-3	dibenz[a,h]anthracene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.001%
· Additiona	al Components	
83-32-9	acenaphthene	0.1%
90-12-0	1-methylnaphthalene ◆ Acute Tox. 4, H302 Flam. Liq. 4, H227	0.1%
91-57-6	2-methylnaphthalene •••• Acute Tox. 4, H302	0.1%
86-73-7	fluorene & Carc. 1B, H350	0.01%
85-01-8	phenanthrene, pure Carc. 1B, H350 Acute Tox. 4, H302; Skin Irrit. 2, H315	0.0059
120-12-7	anthracene Carc. 1B, H350 PBT	0.0059
129-00-0	pyrene Acute Tox. 3, H311; Acute Tox. 3, H331 Carc. 1B, H350	0.0059
218-01-9	V	0.0059



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193-39-5	indeno[1,2,3-cd]pyrene ♦ Carc. 2, H351	0.001%
50-32-8	benzo[a]pyrene № Muta. IB, H340; Carc. IB, H350; Repr. IB, H360 ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ♦ Skin Sens. 1, H317	0.0005%
191-24-2	Benzo(g,h,i)perylene	0.0005%
206-44-0	fluoranthene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H332	0.0005%
56-55-3	benz[a]anthracene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.00019
205-82-3	benzo[j]fluoranthene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
205-99-2	benz[e]acephenanthrylene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%
207-08-9	benzo[k]fluoranthene Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.0001%

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.
- · 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:

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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

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

<i>PAC-1</i> :		
75-05-8	acetonitrile	13 ppm
83-32-9	acenaphthene	3.6 mg/m^3
90-12-0	1-methylnaphthalene	20 mg/m^3
91-20-3	naphthalene	15 ppm
91-57-6	2-methylnaphthalene	9 mg/m³
208-96-8	acenaphthylene	10 mg/m^3
86-73-7	fluorene	6.6 mg/m^3
85-01-8	phenanthrene, pure	5.4 mg/m^3
120-12-7	anthracene	48 mg/m^3
129-00-0	pyrene	0.15 mg/m^{3}
218-01-9	chrysene	0.6 mg/m^3
53-70-3	dibenz[a,h]anthracene	0.093 mg/n
193-39-5	indeno[1,2,3-cd]pyrene	1.2 mg/m^{3}
50-32-8	benzo[a]pyrene	0.6 mg/m^3
191-24-2	Benzo(g,h,i)perylene	30 mg/m^3
206-44-0	fluoranthene	8.2 mg/m^3
56-55-3	benz[a]anthracene	0.6 mg/m^3

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205-99-2	benz[e]acephenanthrylene	(Contd. of pag 0.12 mg/m
· PAC-2:		1 =
75-05-8	acetonitrile	50 ppm
83-32-9	acenaphthene	40 mg/m
	1-methylnaphthalene	61 mg/m
91-20-3	naphthalene	83 ppm
91-57-6	2-methylnaphthalene	54 mg/m
208-96-8	acenaphthylene	110 mg/r
86-73-7	fluorene	72 mg/m
85-01-8	phenanthrene, pure	59 mg/m
120-12-7	anthracene	530 mg/r
129-00-0	pyrene	1.7 mg/n
218-01-9	chrysene	12 mg/m
53-70-3	dibenz[a,h]anthracene	$1 mg/m^3$
193-39-5	indeno[1,2,3-cd]pyrene	13 mg/m
50-32-8	benzo[a]pyrene	120 mg/r
191-24-2	Benzo(g,h,i)perylene	330 mg/r
206-44-0	fluoranthene	90 mg/m
56-55-3	benz[a]anthracene	120 mg/r
205-99-2	benz[e]acephenanthrylene	1.3 mg/n
· PAC-3:		
75-05-8	acetonitrile	150 ppm
83-32-9	acenaphthene	240 mg/m³
90-12-0	1-methylnaphthalene	360 mg/m ³
91-20-3	naphthalene	500 ppm
91-57-6	2-methylnaphthalene	320 mg/m ³
208-96-8	acenaphthylene	660 mg/m³
86-73-7	fluorene	430 mg/m³
	phenanthrene, pure	360 mg/m ³
120-12-7	anthracene	3,200 mg/r
129-00-0	pyrene	110 mg/m³
218-01-9		69 mg/m³
	dibenz[a,h]anthracene	2.9 mg/m^3
	indeno[1,2,3-cd]pyrene	79 mg/m³
	benzo[a]pyrene	700 mg/m ³
	Benzo(g,h,i)perylene	2,000 mg/r
	fluoranthene	400 mg/m³
56-55-3	benz[a]anthracene	700 mg/m^3



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205-99-2 benz[e]acephenanthrylene	7.9 mg/m^3

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:

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.

75-03	75-05-8 acetonitrile		
PEL	PEL Long-term value: 70 mg/m³, 40 ppm		
REL	Long-term value: 34 mg/m³, 20 ppm		
TLV	Long-term value: 34 mg/m³, 20 ppm Skin		
91-20	91-20-3 naphthalene		
PEL	Long-term value: 50 mg/m³, 10 ppm		
REL	Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm		
TLV	Long-term value: 52 mg/m³, 10 ppm Skin; BEI		

· 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles or safety glasses

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- Appearance:

Form: Liquid
Color: Transparent
Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: -46 °C (-50.8 °F) Boiling point/Boiling range: 81 °C (177.8 °F)

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Flash point:	5 °C (41 °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/vapo mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 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/wate	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC content:	0.00 %
Solids content:	0.4 %
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/LC5	· LD/LC50 values that are relevant for classification:		
	75-05-8 acetonitrile		
Oral	LD50	2730 mg/kg (rat)	
Dermal	LD50	1250 mg/kg (rabbit)	

- Primary irritant effect:
- · on the skin: No irritant effect.
- · 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 Harmful Irritant

· Carcinogenic categories

	ternational Agency for Research on Cancer)	
83-32-9	acenaphthene	3
91-20-3	naphthalene	21
86-73-7	fluorene	3
85-01-8	phenanthrene, pure	3
120-12-7	anthracene	3
129-00-0	pyrene	3
218-01-9	chrysene	21
53-70-3	dibenz[a,h]anthracene	2.4
193-39-5	indeno[1,2,3-cd]pyrene	2 <i>E</i>
50-32-8	benzo[a]pyrene	1
191-24-2	Benzo(g,h,i)perylene	3
206-44-0	fluoranthene	3
56-55-3	benz[a]anthracene	2.6
205-82-3	benzo[j]fluoranthene	2.6
205-99-2	benz[e]acephenanthrylene	21
207-08-9	benzo[k]fluoranthene	21
NTP (Nat	ional Toxicology Program)	
01-20-3	nanhthalene	1

,	tional Toxicology Program)	
91-20-3	naphthalene	R
86-73-7	fluorene	R
85-01-8	phenanthrene, pure	R
120-12-7	anthracene	R
129-00-0	pyrene	R

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		Contd. of page
218-01-9	chrysene	1
53-70-3	dibenz[a,h]anthracene	1
193-39-5	indeno[1,2,3-cd]pyrene	1
50-32-8	benzo[a]pyrene	1
206-44-0	fluoranthene	1
56-55-3	benz[a]anthracene	1
205-82-3	benzo[j]fluoranthene	1
205-99-2	benz[e]acephenanthrylene	1
207-08-9	benzo[k]fluoranthene	1
· OSHA-C	a (Occupational Safety & Health Administration)	
None of t	he ingredients is listed.	

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:

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:

Dispose of container and materials in accordance with local, regional and national regulations.

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

14 Transport information

- $\cdot \textit{UN-Number}$
- · DOT, ADR, IMDG, IATA

UN1992

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UN proper shipping name	
DOT	Flammable liquids, toxic, n.o.s. (Acetonitrile, pyrene)
ADR	1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONITRIA
	pyrene)
IMDG, IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONITRII pyrene)
Transport hazard class(es)	
DOT	
PAMAGAT KOROL 3 TOXIC 6	
Class	3 Flammable liquids
Label	3. 6.1
ADR	
Class	3 (FT1) Flammable liquids
Label	3+6.1
<i>IMDG</i>	
Class	3 Flammable liquids
Label	3/6.1
IATA L L L L L L L L L L L L L	
Class	3 Flammable liquids
Label	3 (6.1)
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	В
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· 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:	
$\cdot DOT$	
· Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 60 L
·ADR	
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· 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.
-	(ACETONITRILE, PYRENE), 3 (6.1), II

15 K	Regul	atory	, int	formati	on

· Safety, h	ealth and environmental regulations/legislation specific for the substance or mixture	
	acetonitrile	99.4661%
	Flam. Liq. 2, H225 Loute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2A, H319	
83-32-9	acenaphthene	0.1%
90-12-0	1-methylnaphthalene ♠ Acute Tox. 4, H302 Flam. Liq. 4, H227	0.1%

· Sara

· Section 355 (extremely .	hazardous	subst	ances):	:
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129-00-0 pyrene

· Section 313 (Specific toxic chemical listings):

/3-03-6 aceioniiriie	75-05-8	5-8 acetonitrile
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91-20-3 naphthalene

85-01-8 phenanthrene, pure

120-12-7 anthracene

218-01-9 chrysene

53-70-3 dibenz[a,h]anthracene

193-39-5 indeno[1,2,3-cd]pyrene

50-32-8 benzo[a]pyrene

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		(Contd. of page
	Benzo(g,h,i)perylene	
	fluoranthene	
	benz[a]anthracene	
	benzo[j]fluoranthene	
	benz[e]acephenanthrylene	
	benzo[k]fluoranthene	
	oxic Substances Control Act):	
_	lients are listed.	Liame
	acetonitrile	ACTIV
	acenaphthene	ACTIV
	1-methylnaphthalene	ACTIV
	naphthalene	ACTIV
	2-methylnaphthalene	ACTIV
	acenaphthylene	ACTIV
	fluorene	ACTIV
	phenanthrene, pure	ACTIV
120-12-7	anthracene	ACTIV
129-00-0	if t	ACTIV
218-01-9	chrysene	ACTIV
	dibenz[a,h]anthracene	ACTIV
193-39-5	indeno[1,2,3-cd]pyrene	ACTIV
50-32-8	benzo[a]pyrene	ACTIV
206-44-0	fluoranthene	ACTIV
56-55-3	benz[a]anthracene	ACTIV
· Hazardoi	us Air Pollutants	
75-05-8	acetonitrile	
91-20-3	naphthalene	
	fluorene	
	phenanthrene, pure	
	anthracene	
129-00-0	pvrene	
	chrysene	
	dibenz[a,h]anthracene	
	indeno[1,2,3-cd]pyrene	
	benzo[a]pyrene	
	fluoranthene	
	benz[a]anthracene	
	benz[e]acephenanthrylene	
	benzo[k]fluoranthene	



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(Contd. of page 14) · Proposition 65 · Chemicals known to cause cancer: 91-20-3 naphthalene 218-01-9 chrysene 53-70-3 dibenz[a,h]anthracene 193-39-5 indeno[1,2,3-cd]pyrene 50-32-8 benzo[a]pyrene 56-55-3 benz[a]anthracene 205-82-3 benzo[j]fluoranthene 205-99-2 benz[e]acephenanthrylene 207-08-9 benzo[k]fluoranthene · 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: None of the ingredients is listed. · Cancerogenity categories · EPA (Environmental Protection Agency) 75-05-8 acetonitrile CBD, D91-20-3 naphthalene C, CBD 91-57-6 2-methylnaphthalene 208-96-8 acenaphthylene D 86-73-7 *fluorene* D85-01-8 phenanthrene, pure D120-12-7 anthracene D129-00-0 pyrene D 218-01-9 chrysene *B2* 53-70-3 dibenz[a,h]anthracene *B2* 193-39-5 indeno[1,2,3-cd]pyrene B250-32-8 benzo[a]pyrene CaHD191-24-2 Benzo(g,h,i)perylene 206-44-0 fluoranthene D 56-55-3 benz[a]anthracene *B2* 205-99-2 benz[e]acephenanthrylene *B2* 207-08-9 benzo[k]fluoranthene B2TLV (Threshold Limit Value established by ACGIH) 75-05-8 acetonitrile A490-12-0 1-methylnaphthalene A4

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Trade name: LC Standard-PAH Analyte Mix

	(C	Contd. of page 15)		
	naphthalene	A4		
91-57-6	2-methylnaphthalene	A4		
218-01-9	chrysene	A3		
	benzo[a]pyrene	A2		
56-55-3	benz[a]anthracene	A2		
205-99-2	benz[e] acephenanthrylene	A2		
· NIOSH-Ca (National Institute for Occupational Safety and Health)				
	chrysene			
50-32-8	benzo[a]pyrene			

- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

- · Department issuing SDS: Environmental, Health and Safety
- · Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

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Trade name: LC Standard-PAH Analyte Mix

(Contd. of page 16)

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

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 3: Acute toxicity - Category 3

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

* * Data compared to the previous version altered.