

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

1 Identification

· **Product identifier**

· **Trade name:** MIX A LC 610 PAH CALIBRATION

· **Article number** 00891543

· **Restrictions**

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

· **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.



Health hazard

Carc. 1B H350 May cause cancer.



Acute Tox. 4 H302 Harmful if swallowed.

· **Label elements**

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

· **Hazard pictograms** GHS02, GHS07, GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

dichloromethane
2-methylnaphthalene
dibenz[a,h]anthracene
1-methylnaphthalene

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· Hazard statements

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H350 May cause 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.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

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

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

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

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

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

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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 = 1

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1

Fire = 3

Reactivity = 0

· Other hazards

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

· Results of PBT and vPvB assessment

· PBT:

120-12-7 anthracene

· vPvB: Not applicable.

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Hazardous components:**

75-09-2	dichloromethane ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H302	98.79%
86-73-7	fluorene ⚠ Carc. 1B, H350	0.1%
120-12-7	anthracene ⚠ Carc. 1B, H350 PBT	0.1%
208-96-8	acenaphthylene ⚠ Acute Tox. 1, H310; Acute Tox. 1, H330	0.1%
50-32-8	benzo[a]pyrene ⚠ Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Sens. 1, H317	0.05%
53-70-3	dibenz[a,h]anthracene ⚠ Carc. 1B, H350 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%
56-55-3	benz[a]anthracene ⚠ Carc. 1B, H350 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%

· **Additional 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%
85-01-8	phenanthrene, pure ⚠ Carc. 1B, H350 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	0.05%
129-00-0	pyrene ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ Carc. 1B, H350	0.05%
191-24-2	Benzo(g,h,i)perylene	0.05%
193-39-5	indeno[1,2,3-cd]pyrene ⚠ Carc. 2, H351	0.05%
205-82-3	benzo[j]fluoranthene ⚠ Carc. 1B, H350 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%













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205-99-2	benz[e]acephenanthrylene  Carc. 1B, H350  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%
206-44-0	fluoranthene  Carc. 1B, H350  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H332	0.05%
207-08-9	benzo[k]fluoranthene  Carc. 1B, H350  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%
218-01-9	chrysene  Muta. 2, H341; Carc. 1B, H350  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.05%
91-20-3	naphthalene  Carc. 2, H351  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302 Flam. Liq. 4, H227	0.01%

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; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Immediately call a 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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

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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**

· **PAC-1:**

75-09-2	dichloromethane	200 ppm
83-32-9	acenaphthene	3.6 mg/m ³
86-73-7	fluorene	6.6 mg/m ³
90-12-0	1-methylnaphthalene	20 mg/m ³
91-57-6	2-methylnaphthalene	9 mg/m ³
120-12-7	anthracene	48 mg/m ³
208-96-8	acenaphthylene	10 mg/m ³
50-32-8	benzo[a]pyrene	0.6 mg/m ³
53-70-3	dibenz[a,h]anthracene	0.093 mg/m ³
56-55-3	benz[a]anthracene	0.6 mg/m ³
85-01-8	phenanthrene, pure	5.4 mg/m ³
129-00-0	pyrene	0.15 mg/m ³
191-24-2	Benzo(g,h,i)perylene	30 mg/m ³
193-39-5	indeno[1,2,3-cd]pyrene	1.2 mg/m ³
205-99-2	benz[e]acephenanthrylene	0.12 mg/m ³
206-44-0	fluoranthene	8.2 mg/m ³
218-01-9	chrysene	0.6 mg/m ³
91-20-3	naphthalene	15 ppm

· **PAC-2:**

75-09-2	dichloromethane	560 ppm
83-32-9	acenaphthene	40 mg/m ³
86-73-7	fluorene	72 mg/m ³
90-12-0	1-methylnaphthalene	61 mg/m ³
91-57-6	2-methylnaphthalene	54 mg/m ³
120-12-7	anthracene	530 mg/m ³

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208-96-8	acenaphthylene	110 mg/m ³
50-32-8	benzo[a]pyrene	120 mg/m ³
53-70-3	dibenz[a,h]anthracene	1 mg/m ³
56-55-3	benz[a]anthracene	120 mg/m ³
85-01-8	phenanthrene, pure	59 mg/m ³
129-00-0	pyrene	1.7 mg/m ³
191-24-2	Benzo(g,h,i)perylene	330 mg/m ³
193-39-5	indeno[1,2,3-cd]pyrene	13 mg/m ³
205-99-2	benz[e]acephenanthrylene	1.3 mg/m ³
206-44-0	fluoranthene	90 mg/m ³
218-01-9	chrysene	12 mg/m ³
91-20-3	naphthalene	83 ppm

PAC-3:

75-09-2	dichloromethane	6,900 ppm
83-32-9	acenaphthene	240 mg/m ³
86-73-7	fluorene	430 mg/m ³
90-12-0	1-methylnaphthalene	360 mg/m ³
91-57-6	2-methylnaphthalene	320 mg/m ³
120-12-7	anthracene	3,200 mg/m ³
208-96-8	acenaphthylene	660 mg/m ³
50-32-8	benzo[a]pyrene	700 mg/m ³
53-70-3	dibenz[a,h]anthracene	2.9 mg/m ³
56-55-3	benz[a]anthracene	700 mg/m ³
85-01-8	phenanthrene, pure	360 mg/m ³
129-00-0	pyrene	110 mg/m ³
191-24-2	Benzo(g,h,i)perylene	2,000 mg/m ³
193-39-5	indeno[1,2,3-cd]pyrene	79 mg/m ³
205-99-2	benz[e]acephenanthrylene	7.9 mg/m ³
206-44-0	fluoranthene	400 mg/m ³
218-01-9	chrysene	69 mg/m ³
91-20-3	naphthalene	500 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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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.

75-09-2 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

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
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· **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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50-32-8 benzo[a]pyrene

BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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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.
- **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 through 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:	Like alcohol
Odor threshold:	Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-95.1 °C (-139.2 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
· Flash point:	11 °C (51.8 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	605 °C (1121 °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.
· Explosion limits:	
Lower:	13 Vol %
Upper:	22 Vol %
· Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 20 °C (68 °F):	20 g/l
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	98.8 %
VOC content:	98.79 %
Solids content:	0.1 %
· 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.

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· **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:**

75-09-2 dichloromethane

Oral	LD50	1600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

· **Carcinogenic categories**

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

75-09-2	dichloromethane	2A
83-32-9	acenaphthene	3
86-73-7	fluorene	3
120-12-7	anthracene	3
50-32-8	benzo[a]pyrene	1
53-70-3	dibenz[a,h]anthracene	2A
56-55-3	benz[a]anthracene	2B
85-01-8	phenanthrene, pure	3
129-00-0	pyrene	3
191-24-2	Benzo(g,h,i)perylene	3
193-39-5	indeno[1,2,3-cd]pyrene	2B
205-82-3	benzo[j]fluoranthene	2B
205-99-2	benz[e]acephenanthrylene	2B
206-44-0	fluoranthene	3
207-08-9	benzo[k]fluoranthene	2B
218-01-9	chrysene	2B
91-20-3	naphthalene	2B

· **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
86-73-7	fluorene	R
120-12-7	anthracene	R
50-32-8	benzo[a]pyrene	R

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53-70-3	dibenz[a,h]anthracene	R
56-55-3	benz[a]anthracene	R
85-01-8	phenanthrene, pure	R
129-00-0	pyrene	R
193-39-5	indeno[1,2,3-cd]pyrene	R
205-82-3	benzo[j]fluoranthene	R
205-99-2	benz[e]acephenanthrylene	R
206-44-0	fluoranthene	R
207-08-9	benzo[k]fluoranthene	R
218-01-9	chrysene	R
91-20-3	naphthalene	R

· OSHA-Ca (Occupational Safety & Health Administration)

75-09-2	dichloromethane
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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 undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**

· **PBT:**

120-12-7	anthracene
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- **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.

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14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN1993
· UN proper shipping name · DOT · ADR · IMDG · IATA	Flammable liquids, n.o.s. (1-methylnaphthalene, Naphthalene, crude) 1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (1-methylnaphthalene, NAPHTHALENE, CRUDE), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (1-methylnaphthalene, NAPHTHALENE, CRUDE), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (1-methylnaphthalene, NAPHTHALENE, CRUDE)

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG**



· **Class** 3 Flammable liquids
· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids
· **Label** 3

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· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: benz[a]anthracene, dibenz[a,h]anthracene No
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids 33 F-E,S-E B
· 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: 5 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) · Excepted quantities (EQ)	1L 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., SPECIAL PROVISION 640D (1-METHYLNAPHTHALENE, NAPHTHALENE, CRUDE), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture			
75-09-2	dichloromethane	 Carc. 2, H351	98.79%
		 Acute Tox. 4, H302	
83-32-9	acenaphthene		0.1%
86-73-7	fluorene	 Carc. 1B, H350	0.1%
· Sara			
· Section 355 (extremely hazardous substances):			
129-00-0	pyrene		

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· Section 313 (Specific toxic chemical listings):

75-09-2	dichloromethane
120-12-7	anthracene
50-32-8	benzo[a]pyrene
53-70-3	dibenz[a,h]anthracene
56-55-3	benz[a]anthracene
85-01-8	phenanthrene, pure
191-24-2	Benzo(g,h,i)perylene
193-39-5	indeno[1,2,3-cd]pyrene
205-82-3	benzo[j]fluoranthene
205-99-2	benz[e]acephenanthrylene
206-44-0	fluoranthene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
91-20-3	naphthalene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

75-09-2	dichloromethane	ACTIVE
83-32-9	acenaphthene	ACTIVE
86-73-7	fluorene	ACTIVE
90-12-0	1-methylnaphthalene	ACTIVE
91-57-6	2-methylnaphthalene	ACTIVE
120-12-7	anthracene	ACTIVE
208-96-8	acenaphthylene	ACTIVE
50-32-8	benzo[a]pyrene	ACTIVE
53-70-3	dibenz[a,h]anthracene	ACTIVE
56-55-3	benz[a]anthracene	ACTIVE
85-01-8	phenanthrene, pure	ACTIVE
129-00-0	pyrene	ACTIVE
193-39-5	indeno[1,2,3-cd]pyrene	ACTIVE
206-44-0	fluoranthene	ACTIVE
218-01-9	chrysene	ACTIVE
91-20-3	naphthalene	ACTIVE

· Hazardous Air Pollutants

75-09-2	dichloromethane
86-73-7	fluorene
120-12-7	anthracene
50-32-8	benzo[a]pyrene

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53-70-3	dibenz[a,h]anthracene
56-55-3	benz[a]anthracene
85-01-8	phenanthrene, pure
129-00-0	pyrene
193-39-5	indeno[1,2,3-cd]pyrene
205-99-2	benz[e]acephenanthrylene
206-44-0	fluoranthene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
91-20-3	naphthalene

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
50-32-8	benzo[a]pyrene
53-70-3	dibenz[a,h]anthracene
56-55-3	benz[a]anthracene
193-39-5	indeno[1,2,3-cd]pyrene
205-82-3	benzo[j]fluoranthene
205-99-2	benz[e]acephenanthrylene
207-08-9	benzo[k]fluoranthene
218-01-9	chrysene
91-20-3	naphthalene

· **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.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
86-73-7	fluorene	D
91-57-6	2-methylnaphthalene	I
120-12-7	anthracene	D
208-96-8	acenaphthylene	D
50-32-8	benzo[a]pyrene	CaH
53-70-3	dibenz[a,h]anthracene	B2
56-55-3	benz[a]anthracene	B2
85-01-8	phenanthrene, pure	D

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129-00-0	pyrene	D
191-24-2	Benzo(g,h,i)perylene	D
193-39-5	indeno[1,2,3-cd]pyrene	B2
205-99-2	benz[e]acephenanthrylene	B2
206-44-0	fluoranthene	D
207-08-9	benzo[k]fluoranthene	B2
218-01-9	chrysene	B2
91-20-3	naphthalene	C, CBD

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

75-09-2	dichloromethane	A3
90-12-0	1-methylnaphthalene	A4
91-57-6	2-methylnaphthalene	A4
50-32-8	benzo[a]pyrene	A2
56-55-3	benz[a]anthracene	A2
205-99-2	benz[e]acephenanthrylene	A2
218-01-9	chrysene	A3
91-20-3	naphthalene	A4

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

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

· **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 this hazardous material. Exceptions can be made by the authorities in certain cases.

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.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly 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.

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· **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

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. 1: Acute toxicity – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

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.**