

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) DRE-L20545000AL

Product Name Benz[a]anthracene 10 μg/mL in Acetonitrile

Unique Formula Identifier (UFI) J87A-C04X-W00E-1X5E

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

#### **Supplier**

LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767

eMail: gb@lgcstandards.com

Web: www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

Emergency Telephone - §45 - (EC)1272/2008				
Europe	112			
Austria	No information available			

EGHS / EN Page 1/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	(+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English.
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

110941411011 (20) 110 127272000	
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Flammable liquids	Category 2 - (H225)

### 2.2. Label elements

200-835-2

Contains Acetonitrile





Signal word Danger

EGHS / EN Page 2/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

#### **Hazard statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H225 - Highly flammable liquid and vapour

EUH210 - Safety data sheet available on request

#### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P321 - Specific treatment (see supplemental first aid instructions on this label)

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

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

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** 

Ċ		EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	Disruptor Assessment List of
	Acetonitrile	-	-
Bei	nzo[a]anthracene	-	- -

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No	Classification according	Specific	M-Factor	M-Factor
		number		to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Acetonitrile	80 - 100	-	200-835-2	Acute Tox. 4 (H302)			
75-05-8				Acute Tox. 4 (H312)			
				Acute Tox. 4 (H332)			
				Eye Irrit. 2 (H319)			
				Flam. Liq. 2 (H225)			
Benzo[a]anthracene	<0.1	-	200-280-6	Carc. 1B (H350)		100	100
56-55-3				Aquatic Acute 1 (H400)			
				Aquatic Chronic 1			

EGHS / EN Page 3/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

#### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

		(H410)		

#### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

	Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
-			mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
	Acetonitrile 75-05-8	160	390	26.8	No data available	No data available
	Benzo[a]anthracene 56-55-3	3300	5000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. If symptoms persist, call a doctor. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. If symptoms persist, call a doctor.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing. Avoid breathing vapours or mists.

4.2. Most important symptoms and effects, both acute and delayed

EGHS / EN Page 4/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Symptoms May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing.

Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing

vapours or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions**Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

EGHS / EN Page 5/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

safe to do so. Prevent product from entering drains.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

this product. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations**Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks

and immediately after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

Store locked up.

EGHS / EN Page 6/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

\_\_\_\_\_

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acetonitrile	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm	TWA: 40 ppm	TWA: 40 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	*	STEL 160 ppm	*	K*	*
		STEL 280 mg/m <sup>3</sup>			
		H*			
Benzo[a]anthracene	-	H*	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	-
56-55-3	•	0 1 5 1 1	<b>D</b> -	<b>-</b>	F:
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acetonitrile	TWA: 40 ppm	TWA: 70 mg/m <sup>3</sup>	TWA: 40 ppm	TWA: 40 ppm	TWA: 20 ppm
75-05-8	TWA: 70 mg/m <sup>3</sup>	Ceiling: 100 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>
		, and the second	H*	STEL: 60 ppm	STEL: 40 ppm
				STEL: 100 mg/m <sup>3</sup>	STEL: 68 mg/m <sup>3</sup> liho*
Dannalalanthyasana			TWA: 0.2 mg/m <sup>3</sup>	A*	iho*
Benzo[a]anthracene 56-55-3	-	-	TWA: 0.2 mg/m <sup>3</sup>	-	ino"
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Acetonitrile	TWA: 40 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 40 ppm	TWA: 70 mg/m <sup>3</sup>
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 10 ppill TWA: 17 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 17 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>3</sup>
75-05-0	*	H*	Peak: 20 ppm	STEL: 60 ppm	* * * * * *
		''	Peak: 34 mg/m <sup>3</sup>	STEL: 105 mg/m <sup>3</sup>	
			*	skin - potential for	
				cutaneous	
				absorption	
Benzo[a]anthracene	TWA: 0.2 mg/m <sup>3</sup>	-	*	TWA: 0.2 mg/m <sup>3</sup>	-
56-55-3					
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Acetonitrile	TWA: 40 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 40 ppm	*
75-05-8	TWA: 70 mg/m <sup>3</sup>	TWA: 35 mg/m <sup>3</sup>	TWA: 34 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>	TWA: 40 ppm
	STEL: 120 ppm	pelle*	*	*	TWA: 70 mg/m <sup>3</sup>
	STEL: 310 mg/m <sup>3</sup>				
	Sk*				
Benzo[a]anthracene	TWA: 0.2 mg/m <sup>3</sup>	-	TWA: 0.2 mg/m <sup>3</sup>	-	-

EGHS / EN Page 7/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

## DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

56-55-3	STE	L: 0.6 mg/m <sup>3</sup>					
Chemical name	Lu	xembourg	Malta	Netherlands	No	rway	Poland
Acetonitrile		*	*	TWA: 34 mg/m <sup>3</sup>	TWA:	30 ppm	STEL: 140 mg/m <sup>3</sup>
75-05-8		/A: 40 ppm	TWA: 40 ppm	STEL: 5 mg/m <sup>3</sup>	TWA: 5	50 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup>
	TW	A: 70 mg/m³	TWA: 70 mg/m <sup>3</sup>	H*	STEL:	45 ppm	*
						75 mg/m³	
						H*	
Benzo[a]anthracene		-	-	TWA: 550 ng/m <sup>3</sup>		.04 mg/m <sup>3</sup>	TWA: 0.002 mg/m <sup>3</sup>
56-55-3				H*		.12 mg/m <sup>3</sup>	*
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Acetonitrile	TV	/A: 40 ppm	TWA: 40 ppm	TWA: 40 ppm	TWA: 40 ppm		TWA: 40 ppm
75-05-8	TW	4: 70 mg/m³	TWA: 70 mg/m <sup>3</sup>			70 mg/m³	TWA: 68 mg/m <sup>3</sup>
		P*	STEL: 1 mg/m <sup>3</sup>			TEL mg/m <sup>3</sup>	vía dérmica*
			*	Ceiling: 5 mg/m <sup>3</sup>	STEL: S	STEL ppm	
						*	
Benzo[a]anthracene	TWA	A: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	-		*	TWA: 0.2 mg/m <sup>3</sup>
56-55-3							
Chemical name		_	weden	Switzerland			ted Kingdom
Acetonitrile			: 30 ppm				VA: 40 ppm
75-05-8			50 mg/m <sup>3</sup>		TWA: 34 mg/m <sup>3</sup>		'A: 68 mg/m <sup>3</sup>
			e KGV: 60 ppm	STEL: 40 ppm			EL: 60 ppm
		Vägledande	KGV: 100 mg/m <sup>3</sup>	STEL: 68 mg/m <sup>3</sup>	3	STE	L: 102 mg/m <sup>3</sup>
			*	H*			Sk*
Benzo[a]anthracene	)		*	TWA: 0.2 mg/m <sup>3</sup>	3		-
56-55-3							

### **Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Acetonitrile 75-05-8	-	-	-	6.5 mg/24 hours - urine (Thiocyanates) - urine collected over 24 hours <3 mg - urine and blood (Thiocyanate ratio in urine (mg/g Creatinine) and Carboxyhemoglobin in blood (%)) - urine and blood collected at the end of the	- '
				work shift	
Chemical name	Denmark	Finland	France	Germany	Germany
Benzo[a]anthracene 56-55-3	-	-	-	0.3 μg/g Creatinine - BAR (end of	-

EGHS / EN Page 8/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

			exposure or er shift) urine 0.3 µg/g Creatii BAR (for long- exposures: at end of the shift several shifts)	nine - term the after
Chemical name	Hungary	Ireland	Italy	Italy REL
Benzo[a]anthracene 56-55-3	-	4 μmol/mol Creatinine (urine - 1-Hydroxypyrene post shift)		2.5 µg/L - urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek - urine (3-Hydroxybenzo(a)pyren e with hydrolysis) - end of shift at end of workweek

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing

safety goggles.

Hand protection Wear protective butyl rubber gloves. The protective gloves to be used must comply with the

specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable

gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks

and immediately after handling the product.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

EGHS / EN Page 9/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColourcolourlessOdourAromatic.

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point-45.7°CNone knownInitial boiling point and boiling range81.6°CNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive 17 Vol%

limits

Lower flammability or explosive 3 Vol% - 50 g/m<sup>3</sup>

limits

Flash point2 °CNone knownAutoignition temperature524 °CNone knownDecomposition temperatureNone known

pH No data available None known

No data available No information available

Kinematic viscosityNo data availableNone knownDynamic viscosity0.35 mPa s@ 25°CWater solubilityNo data availableNone knownSolubility(ies)No data availableNone knownPartition coefficient-0.34None knownVanour pressure94.51 - 98.64 hPa@ 20°C

Vapour pressure94.51 - 98.64 hPa@ 20°CRelative density0.7857None known

Bulk density
No data available
No data available

**Relative vapour density** 1.42 None known

Particle characteristics

Particle SizeNo information availableParticle Size DistributionNo information available

#### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## **SECTION 10: Stability and reactivity**

EGHS / EN Page 10/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

\_\_\_\_\_

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Harmful by inhalation. (based

on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May be absorbed through the

skin in harmful amounts. Harmful in contact with skin. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on

components).

EGHS / EN Page 11/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 500.00 mg/kg

 ATEmix (dermal)
 1,100.00 mg/kg

 ATEmix (inhalation-vapour)
 11.00 mg/l

#### **Component Information**

Chemical name	Chemical name Oral LD50		Inhalation LC50
Acetonitrile	= 2460 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 26.8 mg/L (Rat) 4 h
Benzo[a]anthracene	= 3300 mg/kg (Rat)	> 5000 mg/kg (Rat)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

European Union
Muta. 1B

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

	Chemical name	European Union
•		

EGHS / EN Page 12/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Benzo[a]anthracene Carc. 1B

Reproductive toxicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Benzo[a]anthracene	Repr. 1B

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** 

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** 

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Acetonitrile	-	LC50: 1600 - 1690mg/L	-	EC50: 3,600 mg/l (48h,
		(96h, Pimephales		daphnia)
		promelas)		
		LC50: =1000mg/L (96h,		
		Pimephales promelas)		
		LC50: =1650mg/L (96h,		
		Poecilia reticulata)		
		LC50: =1850mg/L (96h,		
		Lepomis macrochirus)		
Benzo[a]anthracene	-	-	-	EC50: =0.0042mg/L (48h,

EGHS / EN Page 13/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Daphnia magna)

#### 12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Acetonitrile	-0.34
Benzo[a]anthracene	5.61

### 12.4. Mobility in soil

Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Acetonitrile	The substance is not PBT / vPvB PBT assessment does
	not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** 

No information available.

#### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

EGHS / EN Page 14/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

## **SECTION 14: Transport information**

<u>IATA</u>

**14.1 UN number or ID number** UN1648

**14.2 UN proper shipping name** Acetonitrile mixture

14.3 Transport hazard class(es) 3
14.4 Packing group

**Description** UN1648, Acetonitrile mixture, 3, II

**14.5 Environmental hazards** Not applicable

14.6 Special precautions for user

Special Provisions None ERG Code 3L

IMDG

**14.1 UN number or ID number** UN1648

**14.2 UN proper shipping name** Acetonitrile mixture

14.3 Transport hazard class(es) 3 14.4 Packing group ||

**Description** UN1648, Acetonitrile mixture, 3, II, (2°C c.c.)

14.5 Marine pollutant NF

14.6 Special precautions for user

Special Provisions None

**EmS-No** F-E, S-D No information available

14.7 Maritime transport in bulk No information available according to IMO instruments

RID

14.1 UN number or ID number UN1648

**14.2 UN proper shipping name** Acetonitrile mixture

14.3 Transport hazard class(es)14.4 Packing group

**Description** UN1648, Acetonitrile mixture, 3, II

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** None **Classification code** F1

ADR

14.1 UN number or ID number UN1648

**14.2 UN proper shipping name** Acetonitrile mixture

14.3 Transport hazard class(es) 3 14.4 Packing group ||

**Description** UN1648, Acetonitrile mixture, 3, II, (D/E)

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None
Classification code F1
Tunnel restriction code (D/E)

EGHS / EN Page 15/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

## SECTION 15: Regulatory information

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

National regulations

#### France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Acetonitrile	RG 84	-
75-05-8		

#### Germany

Water hazard class (WGK)

strongly hazardous to water (WGK 3)

#### Netherlands

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Carcinogens	Reproductive Toxins
Benzo[a]anthracene	Present	-	Development Category 1B Fertility Category 1B

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of

EGHS / EN Page 16/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

# **DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors**Not applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Benzo[a]anthracene - 56-55-3	72. 28. 50[c].	

#### **Persistent Organic Pollutants**

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Benzo[a]anthracene - 56-55-3	Priority hazardous substance

#### EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Benzofalanthracene - 56-55-3	Priority hazardous substance

#### **International Inventories**

TSCA Contact supplier for inventory compliance status

EGHS / EN Page 17/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

DSL/NDSL
Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

## **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H350 - May cause cancer

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method

EGHS / EN Page 18/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

### DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

Calculation method
Calculation method
On basis of test data

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 11-Oct-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of

EGHS / EN Page 19/20



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2022 Revision Number 1

DRE-L20545000AL - Benz[a]anthracene 10 µg/mL in Acetonitrile

our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet** 

EGHS / EN Page 20/20