

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

Revision date 30-Sep-2024 Revision Number 1

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

1.1. Product identifier

Product Code(s) DRE-L20515000CY

Product Name Anthanthrene 10 μg/mL in Cyclohexane

Form Not applicable

Unique Formula Identifier (UFI) 4UQW-U0J5-600R-EPCF

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 +1 703-741-3877

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 30-Sep-2024 **Revision Number** 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Emergency Telephone - §45 - (EC)1	Emergency Telephone - §45 - (EC)1272/2008					
Europe	112					
Austria	No information available					
Bulgaria						
Croatia						
Cyprus						
Czech Republic						
Denmark						
France						
Hungary						
Ireland						
Italy						
Lithuania						
Luxembourg						
Netherlands						
Norway						
Portugal						
Romania						
Slovakia						
Slovenia						
Spain						
Sweden						
Switzerland						

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 2 - (H225)

2.2. Label elements

Contains Cyclohexane

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane



Signal word Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

H225 - Highly flammable liquid and vapour

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

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

P273 - Avoid release to the environment

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

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

P391 - Collect spillage

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

2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor InformationThis product does not contain any known or suspected endocrine disruptors.Chemical nameEU - REACH (1907/2006) - Article 59(1)EU - REACH (1907/2006) - Endocrine- Candidate List of Substances of Very High Concern (SVHC) for AuthorisationDisruptor Assessment List of SubstancesCyclohexane--

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

3.2 Mixtures

Chemical nature

Mixture of organic compounds.

	Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
			number	Index No)	to Regulation (EC) No.	concentration		(long-term)
					1272/2008 [CLP]	limit (SCL)		
Γ	Cyclohexane	80 - 100	-	203-806-2	Flam. Liq. 2 (H225)			
	110-82-7				Skin Irrit. 2 (H315)			
					STOT SE 3 (H336)			
					Asp. Tox. 1 (H304)			
					Aquatic Acute 1 (H400)			
					Aquatic Chronic 1			
					(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
Cyclohexane 110-82-7	12705	2000	32.88	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. Immediate medical attention is

required.

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. 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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

pulmonary edema may occur.

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.

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

and shoes. Get medical attention if irritation develops and persists.

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

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate 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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin,

eyes or clothing.

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

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

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

Note to doctors Because of the danger of aspiration, emesis or gastric lavage should not be used unless the

risk is justified by the presence of additional toxic substances.

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.

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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.

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

6.2. Environmental precautions

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

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 sectionsSee section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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. Take off contaminated clothing and wash it before reuse. 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. Store locked up. Keep out of the reach of children. Store away from other materials.

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
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 100 ppm	TWA: 200 ppm	TWA: 200 ppm
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 350 mg/m ³	TWA: 700.0 mg/m ³	TWA: 700 mg/m ³
		STEL 800 ppm			Sk*
		STEL 2800 mg/m ³			

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Chemical name	Cyprus	Czech Republic	Denmark	Fs	tonia	Finland
Cyclohexane	TWA: 200 ppm	TWA: 700 mg/m ³	TWA: 50 ppm		200 ppm	TWA: 100 ppm
110-82-7	TWA: 700 mg/m ³	Ceiling: 2000 mg/m ³			00 mg/m ³	TWA: 350 mg/m ³
110 02 7	1117 tt 7 00 mg/m	Coming. 2000 mg/m	STEL: 100 ppm		oo mg/m	STEL: 250 ppm
			STEL: 344 mg/m ³			STEL: 875 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Gr	eece	Hungary
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA:	200 ppm	TWA: 200 ppm
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 700 mg/m ³		00 mg/m ³	TWA: 700 mg/m ³
	STEL: 375 ppm		Peak: 800 ppm		J. J.	
	STEL: 1300 mg/m ³		Peak: 2800 mg/m ³			
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	ntvia	Lithuania
Cyclohexane	TWA: 200 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA:	23 ppm	TWA: 200 ppm
110-82-7	TWA: 700 mg/m ³	TWA: 350 mg/m ³	TWA: 344 mg/m ³		30 mg/m ³	TWA: 700 mg/m ³
	STEL: 600 ppm]		3	
	STEL: 2100 mg/m ³					
Chemical name	Luxembourg	Malta	Netherlands	No	rway	Poland
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA:	150 ppm	TWA: 300 mg/m ³
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 5	25 mg/m ³	STEL: 1000 mg/m ³
			STEL: 400 ppm	STEL: 1	87.5 ppm	Sk*
			STEL: 1400 mg/m ³	STEL: 65	6.25 mg/m ³	
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA:	200 ppm	TWA: 200 ppm
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 7	00 mg/m ³	TWA: 700 mg/m ³
					300 mg/m ³	
				STEL:	800 ppm	
Chemical name	S	weden	Switzerland		Uni	ted Kingdom
Cyclohexane	exane NGV: 200 ppm		TWA: 200 ppm		TW	/A: 100 ppm
Cyclonexane	1	· = 00 pp				
110-82-7		700 mg/m ³	TWA: 700 mg/m	1 ³		A: 350 mg/m ³
,			TWA: 700 mg/m STEL: 800 ppm			A: 350 mg/m ³ EL: 300 ppm

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Cyclohexane	-	-	-	150 mg/g Creatinine	-
110-82-7				- urine	
				(1,2-Cyclohexanedi	
				ol) - at the end of the	
				work shift; at chronic	
				exposure after	
				several successive	
				shifts	
				450 μg/L - blood	

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 30-Sep-2024 **Revision Number** 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Chemical name	Denmark	Finland	Fra	nce	(Cyclohexano during exposu 3.20 mg/g Creat - urine (Cyclohexano during the seco half of the work Germany DF	ure inine I) - ond shift	
	Deninark	i illialiu	ria	iiio c			
Cyclohexane 110-82-7	-	-		_	(urine - tota 1,2-Cyclohexan (after hydrolysis) of shift) 150 mg/g Creat (urine - tota 1,2-Cyclohexan (after hydrolysis long-term exposures: at	ediol end inine l ediol s) for the after s) inine term the after	
Chemical name	Slovenia	Spain		Sw	itzerland		United Kingdom
Cyclohexane 110-82-7	150 mg/g Creatinine - urine (1,2-Cyclohexanediol (after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	-		1,2-Cyclo of shift, ar shifts (I exp 146 µmol/r (uri 1,2-Cyclo of shift, ar	creatinine (urine total hexanediol end after several for long-term cosures)) mmol creatinine ne - total hexanediol end after several for long-term cosures))		-

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
No information available.
No information available. (PNEC)

8.2. Exposure controls

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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 nitrile 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.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColourcolourlessOdourOdourless.

Odour threshold No information available

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

Melting point / freezing point6.5 °CNone knownInitial boiling point and boiling range80.7 °CNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive 9,3 Vol% - 326 g/m³

limits

1 Vol% - 35 g/m³

Lower flammability or explosive

limits
Flash point -20 °C None known

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 30-Sep-2024 Revision Number 1

None known

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Autoignition temperature 260 °C

Decomposition temperatureNo data availableNone knownPHNo data availableNone known

PH (as aqueous solution)

No data available

No information available

None known

Dynamic viscosity 0.894 mPas @ 20°C Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient 3.44 None known 103 hPa Vapour pressure @ 20°C Relative density 0.78 None known

Bulk density

No data available

Liquid Density

No data available

Relative vapour density 2.9 None known

Particle characteristics

Particle Size No information available Particle Size Distribution No 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

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

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

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. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be

fatal. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact Repeated exposure may cause skin dryness or cracking. Specific test data for the

substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness

and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (oral) 99,999.00 mg/kg

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

 ATEmix (dermal)
 99,999.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

 ATEmix (inhalation-vapour)
 99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cyclohexane	= 12705 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 32.88 mg/L (Rat)4 h

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure No information available.

Aspiration hazard May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cyclohexane	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata)		EC50: 3.78mg/L (48h, 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

beni benen in ennacen				
Chemical name	Partition coefficient			
Cyclohexane	3.44			

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

PBT and vPvB assessment

The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment		
Cyclohexane	The substance is not PBT / vPvB		

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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN1145

14.2 UN proper shipping name Cyclohexane mixture

14.3 Transport hazard class(es)14.4 Packing group

Description UN1145, Cyclohexane mixture, 3, II

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions None ERG Code 3H

IMDG

14.1 UN number or ID number UN1145

14.2 UN proper shipping name Cyclohexane mixture

14.3 Transport hazard class(es)14.4 Packing group

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

Description UN1145, Cyclohexane mixture, 3, II, (-20°C c.c.), Marine pollutant

14.5 Marine pollutant P
Environmental hazards Yes

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 UN1145

14.2 UN proper shipping name Cyclohexane mixture

14.3 Transport hazard class(es)14.4 Packing group

Description UN1145, Cyclohexane mixture, 3, II, Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions None **Classification code** F1

ADR

14.1 UN number or ID number UN1145

14.2 UN proper shipping name Cyclohexane mixture

14.3 Transport hazard class(es)14.4 Packing group

Description UN1145, Cyclohexane mixture, 3, II, (D/E), Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

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

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
Cyclohexane 110-82-7	RG 84	-

Water hazard class (WGK) obviously hazardous to water (WGK 2)

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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
Cyclohexane - 110-82-7	57	

Persistent Organic Pollutants

Not applicable

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

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

Not applicable

International Inventories

TSCA LGC has not confirmed that the chemical substances in this product are on the TSCA

Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided

at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the

requirements that apply to its use of this product.

DSL/NDSL Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status

EGHS / EN Page 17 / 20



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Revision date 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

ENCS
Contact supplier for inventory compliance status
Contact supplier for inventory compliance status
KECI
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

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

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 Sk* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal 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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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 30-Sep-2024

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

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 30-Sep-2024 Revision Number 1

DRE-L20515000CY - Anthanthrene 10 µg/mL in Cyclohexane

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