

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

Revision date 22-Jul-2022 Revision Number 1

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

1.1. Product identifier

Product Code(s) DRE-XA14071400CY

Product Name alpha-HCH D6 100 μg/mL in Cyclohexane

Unique Formula Identifier (UFI) K2X7-R0XV-0005-NX2X

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)1	272/2008
Europe	112
Austria	No information available

EGHS / EN Page 1/19



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

Revision date 22-Jul-2022 **Revision Number** 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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 mixtureRegulation (EC) No 1272/2008

11094141011 (20) 110 12/2000	
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

203-806-2



EGHS / EN Page 2/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 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 Information

	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very	,
	High Concern (SVHC) for Authorisation	·
Cyclohexane	-	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

Mixture of organic compounds.

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)		
Cyclohexane	80 - 100	-	203-806-2	Flam. Liq. 2 (H225)			

EGHS / EN Page 3/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

110-82-7		Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		
		(11410)		

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		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Cyclohexane 110-82-7	12705	2000	No data available	No data available	No data available

Additional information

This product contains a stable isotope.

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 advice/attention. Delayed

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 contactWash 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

EGHS / EN Page 4/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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 advice/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 Inhalation of high vapour concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Difficulty in breathing. Coughing and/ or wheezing.

Dizziness.

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.

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

EGHS / EN Page 5/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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 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 Handle in accordance with good industrial hygiene and safety practice. In case of

insufficient ventilation, wear suitable respiratory equipment. Avoid breathing vapours or mists. Use personal protection equipment. 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. 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.

General hygiene considerations 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

EGHS / EN Page 6/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

immediately after handling the product. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

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. 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.

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		-	*
		STEL 2800 mg/m ³			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Cyclohexane	TWA: 200 ppm	TWA: 700 mg/m ³	TWA: 50 ppm	TWA: 200 ppm	TWA: 100 ppm
110-82-7	TWA: 700 mg/m ³	Ceiling: 2000 mg/m ³	TWA: 172 mg/m ³	TWA: 700 mg/m ³	TWA: 350 mg/m ³
					STEL: 250 ppm
					STEL: 875 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 700 mg/m ³
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 700 mg/m ³	TWA: 700 mg/m ³	
	STEL: 375 ppm		Peak: 800 ppm		
	STEL: 1300 mg/m ³		Peak: 2800 mg/m ³		
Chemical name	Ireland	Italy	Italy REL	Latvia	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	TWA: 80 mg/m ³	TWA: 700 mg/m ³
	STEL: 600 ppm				

EGHS / EN Page 7/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

	CTEL	. 0400/3		T	I		
	SIEL	: 2100 mg/m ³					
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
Cyclohexane	TW	A: 200 ppm	TWA: 200 ppm	TWA: 700 mg/m ³	TWA:	150 ppm	STEL: 1000 mg/m ³
110-82-7	TWA	: 700 mg/m ³	TWA: 700 mg/m ³	STEL: 1400 mg/m ³	TWA: 5	25 mg/m ³	TWA: 300 mg/m ³
		· ·			STEL: 1	187.5 ppm	*
					STEL: 65	6.25 mg/m ³	
Chemical name	Portugal		Romania	Slovakia	Slo	venia	Spain
Cyclohexane	TW	A: 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: 700 mg/m ³		TWA: 700 mg/m ³
		J	Ŭ		STEL: S	TEL mg/m ³	ŭ
					STEL: S	STEL ppm	
Chemical name		Sı	weden	Switzerland		Uni	ted Kingdom
Cyclohexane		NGV:	200 ppm	TWA: 200 ppm		TV	/A: 100 ppm
110-82-7	NGV: 7		700 mg/m ³	TWA: 700 mg/n	m³ TW		A: 350 mg/m ³
			-	STEL: 800 ppn	n	STI	EL: 300 ppm
				STEL: 2800 mg/	m³	STEL: 1050 mg/m ³	

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Chemical name Cyclohexane 110-82-7	European Union	Austria -	Bulgaria -	Croatia 150 mg/g Creatinine - urine (1,2-Cyclohexanedi ol) - at the end of the work shift; at chronic exposure after several successive shifts 450 µg/L - blood (Cyclohexanol) - during exposure 3.20 mg/g Creatinine - urine	-
				(Cyclohexanol) - during the second half of the work shift	
Chemical name	Denmark	Finland	France	Germany	Germany
Cyclohexane 110-82-7	-	-	-	(urine - total 1,2-Cyclohexanediol (after hydrolysis) end of shift)	1,2-Cyclohexanediol (after hydrolysis) end of shift) 150 mg/g Creatinine (urine - total

EGHS / EN Page 8/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

				(after hydrolysis	s) for	(after hydrolysis) for
				long-term		long-term
				exposures: at		
				end of the shift	after	end of the shift after
				several shifts	s)	several shifts)
				150 mg/g Creat	inine	
				- BAT (for long-	term	
				exposures: at		
				end of the shift	after	
				several shifts) ເ	ırine	
Chemical name	Slovenia	Spain	Sw	itzerland		United Kingdom
Cyclohexane	150 mg/g Creatinine -	-	150 mg/g	creatinine (urine		-
110-82-7	urine			4-4-1		
				- total		
	(1,2-Cyclohexanediol			- total hexanediol end		
	(1,2-Cyclohexanediol (after hydrolysis)) - at the		1,2-Cyclo			
			1,2-Cyclo of shift, ar	hexanediol end		
	(after hydrolysis)) - at the		1,2-Cyclo of shift, ar shifts (1	hexanediol end nd after several		
	(after hydrolysis)) - at the end of the work shift; for	,	1,2-Cyclo of shift, ar shifts (1	hexanediol end nd after several for long-term		
	(after hydrolysis)) - at the end of the work shift; for long-term exposure: at the	,	1,2-Cyclo of shift, ar shifts (1	hexanediol end nd after several for long-term		

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 Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields

(or goggles).

Hand protection Wear protective nitrile rubber gloves. Wear suitable gloves. Impervious gloves. The

protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374.

Skin and body protectionLong sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective

clothing.

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 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. Avoid contact with skin, eyes or clothing. Do not eat,

miniodately diter nariating the product. Avoid bornact with skin, eyes or detailing. Do not out

EGHS / EN Page 9/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

drink or smoke when using this product. Wash hands before breaks and after work. Wear

suitable gloves and eye/face protection.

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

Lower flammability or explosive 1 Vol% - 35 g/m³

limits

Flash point -20 °C None known Autoignition temperature 260 °C None known None known

Decomposition temperature

None known

pHNo data availableNone knownpH (as aqueous solution)No data availableNo information

pH (as aqueous solution)No data availableNo information availableKinematic viscosityNo data availableNone known

Dvnamic 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

EGHS / EN Page 10/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

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

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 May cause drowsiness or dizziness. 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.

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

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

EGHS / EN Page 11/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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 Inhalation of high vapour concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Difficulty in breathing. Coughing and/ or wheezing.

Dizziness. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

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.

EGHS / EN Page 12/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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

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	Crustacea
			microorganisms	
Cyclohexane	EC50: >500mg/L (72h,	LC50: 23.03 - 42.07mg/L	-	EC50: 3.78mg/L (48h,
	Desmodesmus	(96h, Pimephales		Daphnia magna)
	subspicatus)	promelas)		-
		LC50: 24.99 - 44.69mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: 3.96 - 5.18mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: 48.87 - 68.76mg/L		
		(96h, Poecilia reticulata)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

EGHS / EN Page 13/19



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

Revision Number 1 Revision date 22-Jul-2022

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

Component Information

Component information		
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

The product does not contain any substance(s) classified as PBT or vPvB. PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties**

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

Yes

14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions None

EGHS / EN Page 14/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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

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

14.5 Marine pollutant P 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

<u>RID</u>

14.1 UN number or ID number UN1145

14.2 UN proper shipping name Cyclohexane mixture

14.3 Transport hazard class(es) 3 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)

EGHS / EN Page 15/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

Chemical name	French RG number	Title
Cyclohexane 110-82-7	RG 84	-

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

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 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 precursorsNot applicable

Chemical name	Restricted substance per REACH	Substance subject to authorisation per

EGHS / EN Page 16/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

	Annex XVII	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

Contact supplier for inventory compliance status **TSCA DSL/NDSL** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status **IECSC KECL** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **PICCS** AIIC 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

EGHS / EN Page 17/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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 * 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
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	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

EGHS / EN Page 18/19



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

Revision date 22-Jul-2022 Revision Number 1

DRE-XA14071400CY - alpha-HCH D6 100 µg/mL in Cyclohexane

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

22-Jul-2022 **Revision date**

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

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 19/19