



# SAFETY DATA SHEET

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

Revision date 31-Jul-2023

Revision Number 1

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

### 1.1. Product identifier

Product Code(s)	DRE-LA19060002CY
Product Name	Chlorinated Aromatics-Mix 2 10 µg/mL in Cyclohexane
Form	Not applicable
Unique Formula Identifier (UFI)	J3YM-W0YQ-T00F-T718
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](http://www.lgcstandards.com)

For further information, please contact

E-mail address [sds-request@lgcgroup.com](mailto: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
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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

Regulation (EC) No 1272/2008

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



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**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, CO<sub>2</sub>, 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** This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
Cyclohexane	-	-
1,2,4-Trichlorobenzene	-	-

## SECTION 3: Composition/information on ingredients

### 3.1 Substances



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Not applicable

### 3.2 Mixtures

**Chemical nature** Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Cyclohexane 110-82-7	80 - 100	-	203-806-2	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
1,3,5-Trichlorobenzene 108-70-3	<0.1	-	203-608-6	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
1,2,4-Trichlorobenzene 120-82-1	<0.1	-	204-428-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
1,2,3-trichlorobenzene 87-61-6	<0.1	-	201-757-1	Acute Tox. 4 (H302) STOT RE 2 (H373) 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 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
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Chemical name	Oral LD50 mg/kg	Dermal 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	32.88	No data available	No data available
1,3,5-Trichlorobenzene 108-70-3	800	No data available	No data available	No data available	No data available
1,2,4-Trichlorobenzene 120-82-1	756	6139	No data available	No data available	No data available
1,2,3-trichlorobenzene 87-61-6	1830	No data available	No data available	No data available	No data available

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	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.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	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 advice/attention.
<b>Self-protection of the first aider</b>	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.



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

<b>Symptoms</b>	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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## **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	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.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
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<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
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<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	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.
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### **5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	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.
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<b>Other information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
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**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 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. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**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, 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

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### 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 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL 800 ppm STEL 2800 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700.0 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> *
1,3,5-Trichlorobenzene 108-70-3	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL 20 ppm STEL 152 mg/m <sup>3</sup> H*	-	STEL: 37.8 mg/m <sup>3</sup> STEL: 5 ppm TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> K*	-
1,2,4-Trichlorobenzene 120-82-1	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> *	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL 5 ppm STEL 37.8 mg/m <sup>3</sup> H*	*	STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> K*	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> *
1,2,3-trichlorobenzene 87-61-6	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL 20 ppm STEL 152 mg/m <sup>3</sup> H*	-	STEL: 37.8 mg/m <sup>3</sup> STEL: 5 ppm TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> K*	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 700 mg/m <sup>3</sup> Ceiling: 2000 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 172 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup>





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					STEL: 250 ppm STEL: 875 mg/m <sup>3</sup>
1,3,5-Trichlorobenzene 108-70-3	-	-	TWA: 5 ppm TWA: 37 mg/m <sup>3</sup> H*	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL: 10 ppm STEL: 75 mg/m <sup>3</sup>
1,2,4-Trichlorobenzene 120-82-1	* STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> Ceiling: 35 mg/m <sup>3</sup> *	TWA: 2 ppm TWA: 15 mg/m <sup>3</sup> H*	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> A*	TWA: 2 ppm TWA: 15 mg/m <sup>3</sup> STEL: 5 ppm STEL: 38 mg/m <sup>3</sup> iho*
1,2,3-trichlorobenzene 87-61-6	-	-	TWA: 5 ppm TWA: 37 mg/m <sup>3</sup> H*	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL: 10 ppm STEL: 75 mg/m <sup>3</sup>
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 375 ppm STEL: 1300 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> Peak: 800 ppm Peak: 2800 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 700 mg/m <sup>3</sup>
1,3,5-Trichlorobenzene 108-70-3	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> Peak: 10 ppm Peak: 76 mg/m <sup>3</sup> *	-	TWA: 38 mg/m <sup>3</sup> STEL: 72 mg/m <sup>3</sup> *
1,2,4-Trichlorobenzene 120-82-1	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> *	TWA: 0.5 ppm TWA: 3.8 mg/m <sup>3</sup>	*	TWA: 5 ppm TWA: 40 mg/m <sup>3</sup> STEL: 5 ppm STEL: 40 mg/m <sup>3</sup> skin - potential for cutaneous absorption	TWA: 15.1 mg/m <sup>3</sup> STEL: 37.8 mg/m <sup>3</sup> *
1,2,3-trichlorobenzene 87-61-6	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> Peak: 10 ppm Peak: 76 mg/m <sup>3</sup> *	-	TWA: 38 mg/m <sup>3</sup> STEL: 72 mg/m <sup>3</sup> *
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 600 ppm STEL: 2100 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 344 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 80 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
1,2,4-Trichlorobenzene 120-82-1	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm	Ceiling: 5 ppm Ceiling: 37 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm	* TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup>



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	STEL: 37.8 mg/m <sup>3</sup> Sk*	STEL: 37.8 mg/m <sup>3</sup> pelle*		STEL: 37.8 mg/m <sup>3</sup> *	STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 700 mg/m <sup>3</sup> STEL: 1400 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 525 mg/m <sup>3</sup> STEL: 187.5 ppm STEL: 656.25 mg/m <sup>3</sup>	STEL: 1000 mg/m <sup>3</sup> TWA: 300 mg/m <sup>3</sup> *
1,3,5-Trichlorobenzene 108-70-3	-	-	-	-	STEL: 30 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> *
1,2,4-Trichlorobenzene 120-82-1	* STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup>	* STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup>	TWA: 7.55 mg/m <sup>3</sup> STEL: 37.8 mg/m <sup>3</sup> H*	TWA: 2 ppm TWA: 15 mg/m <sup>3</sup> STEL: 4 ppm STEL: 22.5 mg/m <sup>3</sup> H*	STEL: 30 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> *
1,2,3-trichlorobenzene 87-61-6	-	-	-	-	STEL: 30 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 2800 mg/m <sup>3</sup> STEL: 800 ppm	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
1,3,5-Trichlorobenzene 108-70-3	-	-	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL: STEL ppm STEL: STEL mg/m <sup>3</sup> *	-
1,2,4-Trichlorobenzene 120-82-1	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> Ceiling: 5 ppm P*	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: 5 ppm STEL: 37.8 mg/m <sup>3</sup> *	TWA: 2 ppm TWA: 15 mg/m <sup>3</sup> * Ceiling: 38 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 15.1 mg/m <sup>3</sup> STEL: STEL ppm STEL: STEL mg/m <sup>3</sup> *	TWA: 2 ppm TWA: 15 mg/m <sup>3</sup> STEL: 5 ppm STEL: 38 mg/m <sup>3</sup> vía dérmica*
1,2,3-trichlorobenzene 87-61-6	-	-	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> STEL: STEL ppm STEL: STEL mg/m <sup>3</sup> *	-
Chemical name	Sweden		Switzerland		United Kingdom
Cyclohexane 110-82-7	NGV: 200 ppm NGV: 700 mg/m <sup>3</sup>		TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 800 ppm STEL: 2800 mg/m <sup>3</sup>		TWA: 100 ppm TWA: 350 mg/m <sup>3</sup> STEL: 300 ppm STEL: 1050 mg/m <sup>3</sup>
1,3,5-Trichlorobenzene	-		TWA: 5 ppm		-



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108-70-3		TWA: 38 mg/m <sup>3</sup> H*	
1,2,4-Trichlorobenzene 120-82-1	NGV: 2 ppm NGV: 15 mg/m <sup>3</sup> Bindande KGV: 5 ppm Bindande KGV: 38 mg/m <sup>3</sup> *	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> H*	TWA: 1 ppm STEL: 5 ppm Sk*
1,2,3-trichlorobenzene 87-61-6	-	TWA: 5 ppm TWA: 38 mg/m <sup>3</sup> H*	-

### Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Cyclohexane 110-82-7	-	-	-	150 mg/g Creatinine - urine (1,2-Cyclohexanediol) - 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	-	-	-	150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) end of shift) 150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) for long-term exposures: at the end of the shift after several shifts)	150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) end of shift) 150 mg/g Creatinine (urine - total) 1,2-Cyclohexanediol (after hydrolysis) for long-term exposures: at the end of the shift after several shifts)



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				150 mg/g Creatinine - BAT (for long-term exposures: at the end of the shift after several shifts) urine	
Chemical name	Slovenia	Spain	Switzerland	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	-	150 mg/g creatinine (urine - total 1,2-Cyclohexanediol end of shift, and after several shifts (for long-term exposures)) 146 µmol/mmol creatinine (urine - total 1,2-Cyclohexanediol end of shift, and after several shifts (for long-term exposures))	-	

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** 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 protection** Long 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,



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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 state	Liquid
Appearance	Liquid
Colour	colourless
Odour	Odourless.
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	6.5 °C	None known
Initial boiling point and boiling range	80.7 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	9,3 Vol% - 326 g/m <sup>3</sup>	
Lower flammability or explosive limits	1 Vol% - 35 g/m <sup>3</sup>	
Flash point	-20 °C	None known
Autoignition temperature	260 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	0.894 mPa s	@ 20°C
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	3.44	None known
Vapour pressure	103 hPa	@ 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



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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

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

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 irritation of respiratory tract. May cause drowsiness or dizziness.



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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.
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### 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
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
1,3,5-Trichlorobenzene	= 800 mg/kg ( Rat )		
1,2,4-Trichlorobenzene	= 756 mg/kg ( Rat )	= 6139 mg/kg ( Rat )	
1,2,3-trichlorobenzene	= 1830 mg/kg ( Rat )		

### 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.
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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

Endocrine disrupting properties

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
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			microorganisms	
Cyclohexane	EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: 3.96 - 5.18mg/L (96h, <i>Pimephales promelas</i> ) LC50: 23.03 - 42.07mg/L (96h, <i>Pimephales promelas</i> ) LC50: 24.99 - 44.69mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 48.87 - 68.76mg/L (96h, <i>Poecilia reticulata</i> )	-	EC50: 3.78mg/L (48h, <i>Daphnia magna</i> )
1,2,4-Trichlorobenzene	EC50: 11.1 - 36.2mg/L (72h, <i>Pseudokirchneriella subcapitata</i> ) EC50: =1.4mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) EC50: =8.4mg/L (96h, <i>Desmodesmus subspicatus</i> )	LC50: 1.24 - 1.4mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 1.67 - 4.34mg/L (96h, <i>Pimephales promelas</i> ) LC50: 2.68 - 3.4mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 2.7 - 4.1mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 3.4 - 4.77mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: =2.76mg/L (96h, <i>Pimephales promelas</i> ) LC50: =3.02mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =4.8mg/L (96h, <i>Oryzias latipes</i> ) LC50: =6.57mg/L (96h, <i>Brachydanio rerio</i> )	-	EC50: =2.7mg/L (48h, <i>Daphnia magna</i> )

### 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
Cyclohexane	3.44



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1,2,4-Trichlorobenzene	4.02
1,2,3-trichlorobenzene	4.0 - 4.3

### 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
Cyclohexane	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.

## 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)	3
14.4 Packing group	II
Description	UN1145, Cyclohexane mixture, 3, II
14.5 Environmental hazards	Yes



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### 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)	3
14.4 Packing group	II
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 according to IMO instruments	No information available

### RID

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	II
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)	3
14.4 Packing group	II
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



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## National regulations

### France

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Cyclohexane 110-82-7	RG 84	-
1,3,5-Trichlorobenzene 108-70-3	RG 9	-
1,2,4-Trichlorobenzene 120-82-1	RG 9	-
1,2,3-trichlorobenzene 87-61-6	RG 9	-

#### 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).



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### 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. 75.	
1,2,4-Trichlorobenzene - 120-82-1	49.	

### Persistent Organic Pollutants

Not applicable

### Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
1,2,4-Trichlorobenzene - 120-82-1	I.1

### 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

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

Chemical name	EU - Water Framework Directive (2000/60/EC)
1,2,4-Trichlorobenzene - 120-82-1	Priority substance

### International Inventories

TSCA

DSL/NDSL

Complies

Contact supplier for inventory compliance status



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<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	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  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
H373 - May cause damage to organs through prolonged or repeated exposure  
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
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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) (AELG(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

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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 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**