

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

Revision date 13-Dec-2022 Revision Number 1

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

1.1. Product identifier

Product Code(s) DRE-XA11522000ME

Product Name 4-Chlorotoluene 100 μg/mL in Methanol

Unique Formula Identifier (UFI) 32PC-J0F5-S00S-A4C3

Pure substance/mixture Mixture

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

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

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

eMail: gb@lgcstandards.com

Web: www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

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

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

EGHS / EN Page 1/20



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

Revision date 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

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

11094141011 (20) 110 1272/2000	
Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Vapours)	Category 3 - (H331)
Specific target organ toxicity — single exposure	Category 1 - (H370)
Flammable liquids	Category 2 - (H225)

2.2. Label elements

Contains Methanol



Signal word Danger

Hazard statements

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H370 - Causes damage to organs

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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

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)
- Candidate List of Substances of Very
High Concern (SVHC) for AuthorisationEU - REACH (1907/2006) - Endocrine
Disruptor Assessment List of
SubstancesMethanol--

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 (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Methanol	80 - 100	-	(603-001-00	Acute Tox. 3 (H301)	STOT SE 1 ::		
67-56-1			-X)	Acute Tox. 3 (H311)	C>=10%		
			200-659-6	Acute Tox. 3 (H331)	STOT SE 2 ::		
				STOT SE 1 (H370)	3%<=C<10%		
				Flam. Liq. 2 (H225)			
4-chlorotoluene	<0.1	-	203-397-0	Flam. Liq. 3 (H226)			
106-43-4				Acute Tox. 4 (H302)			
				Acute Tox. 4 (H312)			

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

	Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)		
--	--	--	--

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
Methanol 67-56-1	6200	15840	No data available	41.6976	No data available
4-chlorotoluene 106-43-4	1920	2000	No data available	No data available	No data available

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained

personnel should) give oxygen.

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. Get immediate medical

advice/attention.

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

and shoes. Get immediate medical advice/attention.

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

person. Get immediate medical advice/attention.

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Use personal protective equipment as required. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapour or mist.

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

Symptoms Coughing and/ or wheezing. Difficulty in breathing.

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

Note to doctorsTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

Unsuitable extinguishing mediaDo 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

Personal precautions

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Evacuate personnel to safe areas. See section 8 for more information. 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.

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

Do not breathe vapour or mist.

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

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Refer to protective measures listed in

Sections 7 and 8. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containmentStop 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. Avoid contact with

skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. 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 spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate explaints the reduct.

appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

General hygiene considerations Regular cleaning of equipment, work area and clothing is recommended. Wash hands

before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour or mist. 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.

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. 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. 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
Methanol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 260 mg/m ³	TWA: 260 mg/m ³	TWA: 266 mg/m ³	TWA: 260.0 mg/m ³	TWA: 260 mg/m ³
	*	STEL 800 ppm	STEL: 250 ppm	K*	*
		STEL 1040 mg/m ³	STEL: 333 mg/m ³		
		H*	*		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Methanol	*	TWA: 250 mg/m ³	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 200 ppm	Ceiling: 1000 mg/m ³	TWA: 260 mg/m ³	TWA: 250 mg/m ³	TWA: 270 mg/m ³
	TWA: 260 mg/m ³	*	H*	STEL: 250 ppm	STEL: 250 ppm
				STEL: 350 mg/m ³	STEL: 330 mg/m ³
				Α*	iho*
4-chlorotoluene	-	-	-	-	TWA: 50 ppm
106-43-4					TWA: 260 mg/m ³
					STEL: 75 ppm
					STEL: 390 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Methanol	TWA: 200 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 200 ppm	TWA: 260 mg/m ³
67-56-1	TWA: 260 mg/m ³	TWA: 130 mg/m ³	TWA: 130 mg/m ³	TWA: 260 mg/m ³	*
	STEL: 1000 ppm	H*	Peak: 200 ppm	STEL: 250 ppm	
	STEL: 1300 mg/m ³		Peak: 260 mg/m ³	STEL: 325 mg/m ³	
	*		*	skin - potential for	
				cutaneous	

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

				abso	orption	
Chemical name	Ireland	Italy	Italy REL		atvia	Lithuania
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m³ pelle*	TWA: 200 ppm TWA: 262 mg/m³ STEL: 250 ppm STEL: 328 mg/m³		200 ppm 60 mg/m ³	* TWA: 200 ppm TWA: 260 mg/m ³
4-chlorotoluene	-	-	-	TWA: 1	10 mg/m ³	*
106-43-4						TWA: 10 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands		rway	Poland
Methanol 67-56-1	* TWA: 200 ppm TWA: 260 mg/m³	* TWA: 200 ppm TWA: 260 mg/m³	TWA: 133 mg/m³ H*	TWA: 1 STEL: STEL: 16	100 ppm 30 mg/m ³ 150 ppm 62.5 mg/m ³ H*	STEL: 300 mg/m³ TWA: 100 mg/m³ Prohibited - substances or mixtures containing Methanol in weight concentration >3%;except fuels used in the model building, powerboating, fuel cells and biofuels *
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm P*	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 2 STEL:	200 ppm 60 mg/m ³ 800 ppm 040 mg/m ³	TWA: 200 ppm TWA: 266 mg/m ³ vía dérmica*
4-chlorotoluene 106-43-4	-	TWA: 30 ppm TWA: 150 mg/m³ STEL: 50 ppm STEL: 250 mg/m³	-		-	-
Chemical name		weden	Switzerland			ted Kingdom
Methanol 67-56-1	NGV: Vägledand	: 200 ppm 250 mg/m³ e KGV: 250 ppm KGV: 350 mg/m³ *	TWA: 200 ppm TWA: 260 mg/n STEL: 400 ppn STEL: 520 mg/r H*	n ³ n	TW. ST	VA: 200 ppm A: 266 mg/m³ EL: 250 ppm :L: 333 mg/m³ Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Methanol	-	-	-	7.0 mg/g Creatinine -	0.47 mmol/L (urine -
67-56-1				urine (Methanol) - at	Methanol end of

EGHS / EN Page 8/20



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

Revision date 13-Dec-2022 **Revision Number** 1

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

					the end of the v	work	shift)
					shift		15 mg/L (urine -
							Methanol end of
							shift)
Chemical name	Denmark	Finland	-	nce	Germany		Germany
Methanol	-	-		urine	15 mg/L (urin		15 mg/L (urine -
67-56-1			(Methano	l) - end of	Methanol end	d of	Methanol end of
			sh	nift	shift)		shift)
					15 mg/L (urin		15 mg/L (urine -
					Methanol fo	r	Methanol for
					long-term		long-term
					exposures: at		exposures: at the
							end of the shift after
					several shifts	,	several shifts)
					15 mg/L - BAT	(for	
					long-term	.	
					exposures: at		
					end of the shift		
					several shifts) u		
					15 mg/L - BAT		
					of exposure or		
					of shift) urin	<u>e </u>	I DEL
Chemical name	Hungary	Ireland	-		Italy		Italy REL
Methanol	30 mg/L (urine - Methanol				-		15 mg/L - urine
67-56-1	end of shift)	end of sl	nift)			(Met	hanol) - end of shift
	940 µmol/L (urine -						
	Methanol end of shift)						01 1:
Chemical name	Latvia	Luxembo	ourg		omania	00	Slovakia
Methanol	-	-					g/L (urine - Methanol
67-56-1				l - er	nd of shift	end	of exposure or work
						20 ==	shift)
							g/L (urine - Methanol
Chamiastasma	Clayeria	C		C	itzarland		ter all work shifts)
Chemical name	Slovenia	Spain			itzerland		United Kingdom
Methanol	15 mg/L - urine				urine - Methanol		-
67-56-1	(Methanol) - at the end of	end of sl	11111)		hift, and after		
	the work shift; for				al shifts (for		
	long-term exposure: at the end of the work shift after			l long-terr	n exposures))		
	several consecutive						
	workdays	1		I		l	

Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration 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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

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 butyl 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 Regular cleaning of equipment, work area and clothing is recommended. Wash hands

before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour or mist. 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.

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 stateLiquidAppearanceLiquidColourcolourlessOdourAlcohol.

Odour threshold No information available

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

Melting point / freezing point-98 °CNone knownInitial boiling point and boiling range64.7 °CNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive 50 Vol% - 665 g/m³

limits

Lower flammability or explosive 6 Vol% - 80 g/m³

limits

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

Decomposition temperature

No data available

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 0.544 - 0.59 mPas Dynamic viscosity @ 25°C Water solubility No data available None known Solubility(ies) No data available None known **Partition coefficient** -0.77 None known Vapour pressure 128 hPa @ 20°C

Relative density 0.791 None known **Bulk density** No data available

Liquid DensityNo data availableRelative vapour density1.1None 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

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

10.5. Incompatible materials

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

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

on components).

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

Skin contact Specific test data for the substance or mixture is not available. Toxic in contact with skin.

(based on components).

Ingestion Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Difficulty in breathing.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (oral) 100.00 mg/kg
ATEmix (dermal) 300.00 mg/kg
ATEmix (inhalation-vapour) 3.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
4-chlorotoluene	= 1920 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

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

Skin corrosion/irritationBased on available data, the classification criteria are not met.

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 Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

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

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

Ecotoxicity

Unknown aquatic toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methanol	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss)		-
4-chlorotoluene	-	LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus) LC50: =24mg/L (96h,	-	EC50: =3.57mg/L (48h,
		Brachydanio rerio)		Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Methanol	-0.77
4-chlorotoluene	3.33

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment	
Methanol	The substance is not PBT / vPvB PBT assessment does	
	not apply Further information relevant for the PBT	
	assessment is necessary	
4-chlorotoluene	The substance is not PBT / vPvB	

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 Number 1 Revision date 13-Dec-2022

DRE-XA11522000ME - 4-Chlorotoluene 100 µg/mL in Methanol

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 UN1230

14.2 UN proper shipping name Methanol mixture

14.3 Transport hazard class(es) 3 Subsidiary hazard class 6.1 14.4 Packing group

Description UN1230, Methanol mixture, 3 (6.1), II

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A113 **ERG Code** 3L

IMDG

14.1 UN number or ID number UN1230

14.2 UN proper shipping name Methanol mixture

14.3 Transport hazard class(es) Subsidiary hazard class 6.1 14.4 Packing group

Description UN1230, Methanol mixture, 3 (6.1), II, (11°C c.c.)

14.5 Marine pollutant NP

14.6 Special precautions for user

Special Provisions 279

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

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

14.7 Maritime transport in bulk No information available

according to IMO instruments

vo imormation available

RID

14.1 UN number or ID number UN1230

14.2 UN proper shipping name Methanol mixture

14.3 Transport hazard class(es) 3
Subsidiary hazard class 6.1
14.4 Packing group ||

Description UN1230, Methanol mixture, 3 (6.1), II

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 279
Classification code FT1

ADR

14.1 UN number or ID number UN1230

14.2 UN proper shipping name Methanol mixture

14.3 Transport hazard class(es) 3 Subsidiary hazard class 6.1 14.4 Packing group II

Description UN1230, Methanol mixture, 3 (6.1), II, (D/E)

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 279
Classification code FT1
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
Methanol	RG 84	-
67-56-1		

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

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

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 precursors Not applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Methanol - 67-56-1	69.	

Persistent Organic Pollutants

Not applicable

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

H2 - ACUTE TOXIC

H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

P5a - FLAMMABLE LIQUIDS

EGHS / EN Page 17/20



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

Revision date 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name Lower-tier requirements (tons) Upper-tier requirements (tons)

Methanol - 67-56-1 500 5000

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

Not applicable

International Inventories

TSCA Complies

DSL/NDSL Contact supplier for inventory compliance status Contact supplier for inventory compliance status ENCS Contact supplier for inventory compliance status IECSC Contact supplier for inventory compliance status KECL Contact supplier for inventory compliance status PICCS Contact supplier for inventory compliance status Contact supplier for inventory compliance status 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

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H301 - Toxic if swallowed

H302 - Harmful if swallowed

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

H311 - Toxic in contact with skin

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H370 - Causes damage to organs

H411 - 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

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

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 13-Dec-2022 Revision Number 1

DRE-XA11522000ME - 4-Chlorotoluene 100 μg/mL in Methanol

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

13-Dec-2022

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

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