

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

Revision date 06-Aug-2024 Revision Number 1.01

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

1.1. Product identifier

Product Code(s) MM0045.11

Product Name Phenol

Form Not applicable

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

EC No (EU Index No) 203-632-7

CAS No. 108-95-2

Chemical name Phenol

Pure substance/mixture Substance

Formula C6 H6 O

Molecular weight 94.11

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

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E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to

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

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Dermal	Category 3 - (H311)

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Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Germ cell mutagenicity	Category 2 - (H341)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements







Signal word Danger

Hazard statements

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H341 - Suspected of causing genetic defects

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

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

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

P273 - Avoid release to the environment

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

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P391 - Collect spillage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

Toxic to aquatic life.

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This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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
SubstancesPhenol-

SECTION 3: Composition/information on ingredients

3.1 Substances

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)		
Phenol	100	-	203-632-7	Acute Tox. 3 (H301)	Eye Irrit. 2 ::		
108-95-2			(604-001-00	Acute Tox. 3 (H311)	1%<=C<3%		
			-2)	Acute Tox. 3 (H331)	Skin Corr. 1B ::		
				Skin Corr. 1B (H314)	C>=3%		
				Eye Dam. 1 (H318)	Skin Irrit. 2 ::		
				Muta. 2 (H341)	1%<=C<3%		
				STOT RE 2 (H373)			
				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		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ī	Phenol 108-95-2	340	630	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)

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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 breathing has stopped, give artificial respiration. Get medical

attention immediately. 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. Delayed pulmonary edema may occur. Get immediate medical

attention. Do not breathe dust.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Get immediate medical attention. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

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

person. Get immediate medical attention.

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. Avoid contact with skin, eyes or clothing. Do not breathe dust. 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. Use personal protective

equipment as required. See section 8 for more information.

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

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

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

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible

perforation of stomach or esophagus should be investigated. Do not give chemical

antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may

occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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surrounding environment.

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

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapours.

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not

breathe dust.

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

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

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Reference to other sectionsSee section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe dust. Avoid

generation of dust.

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

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust. Take off

contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

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

conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Protect from moisture. Store away from other materials.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Phenol	TWA: 2 ppm				
108-95-2	TWA: 8 mg/m ³				

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	ST	EL: 4 ppm	STEL 4 ppm	STEL: 4 ppm	STEL	_: 4 ppm	STEL: 4 ppm
	STE	L: 16 mg/m ³	STEL 16 mg/m ³	STEL: 16 mg/m ³	STEL:	16 mg/m ³	STEL: 16 mg/m ³
		Sk*	Sk*	Sk*	;	Sk*	Sk*
Chemical name		Cyprus	Czech Republic	Denmark	Es	stonia	Finland
Phenol	TW	'A: 8 mg/m ³	TWA: 7.5 mg/m ³	TWA: 1 ppm	TWA	: 2 ppm	TWA: 2 ppm
108-95-2	T۱	VA: 2 ppm	Sk*	TWA: 4 mg/m ³		8 mg/m ³	TWA: 8 mg/m ³
		L: 16 mg/m ³	Ceiling: 15 mg/m ³	STEL: 16 mg/m ³	STEL:	16 mg/m ³	STEL: 4 ppm
	ST	EL: 4 ppm		STEL: 4 ppm		_: 4 ppm	STEL: 16 mg/m ³
		Sk*		Sk*	,	Sk*	Sk*
Chemical name		France	Germany TRGS	Germany DFG		reece	Hungary
Phenol		VA: 2 ppm	TWA: 2 ppm	Sk*		: 2 ppm	TWA: 2 ppm
108-95-2		4: 7.8 mg/m ³	TWA: 8 mg/m ³			8 mg/m ³	TWA: 8 mg/m ³
		EL: 4 ppm	Sk*			_: 4 ppm	STEL: 4 ppm
	STEL	_: 15.6 mg/m ³				16 mg/m ³	STEL: 16 mg/m ³
		Sk*				Sk*	Sk*
Chemical name		Ireland	Italy MDLPS	Italy AIDII		atvia	Lithuania
Phenol		VA: 2 ppm	TWA: 2 ppm	TWA: 5 ppm		: 2 ppm	TWA: 2 ppm
108-95-2		/A: 8 mg/m ³	TWA: 8.0 mg/m ³	TWA: 19.2 mg/m ³		8 mg/m ³	TWA: 8 mg/m ³
		EL: 4 ppm	STEL: 4 ppm	Sk*		_: 4 ppm	STEL: 4 ppm
	STE	L: 16 mg/m ³	STEL: 16 mg/m ³			16 mg/m ³	STEL: 16 mg/m ³
		Sk*	Sk*			Sk*	Sk*
Chemical name	1	ixembourg	Malta	Netherlands	Norway		Poland
Phenol		VA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm		: 1 ppm	TWA: 7.8 mg/m ³
108-95-2		'A: 8 mg/m ³	TWA: 8 mg/m ³	TWA: 8 mg/m ³		4 mg/m ³	STEL: 16 mg/m ³
		L: 16 mg/m ³	STEL: 16 mg/m ³	Sk*		_: 3 ppm	Sk*
	ST	EL: 4 ppm	STEL: 4 ppm		_	12 mg/m ³	
		Sk*	Sk*	21 11		Sk*	
Chemical name		Portugal	Romania	Slovakia		ovenia	Spain
Phenol		VA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm		: 2 ppm	TWA: 2 ppm
108-95-2		/A: 8 mg/m ³	TWA: 8 mg/m ³	TWA: 8 mg/m ³		8 mg/m ³	TWA: 8 mg/m ³
		EL: 4 ppm	STEL: 4 ppm	Sk*		_: 4 ppm	STEL: 4 ppm
	SIE	L: 16 mg/m ³	STEL: 16 mg/m ³	Ceiling: 16 mg/m ³		16 mg/m ³	STEL: 16 mg/m ³
		Sk*	Sk*	0 %		Sk*	Sk*
Chemical name			weden	Switzerland			ted Kingdom
			/: 1 ppm	TWA: 5 ppm	2		WA: 2 ppm
108-95-2			: 4 mg/m ³	TWA: 19 mg/m	J		A: 7.8 mg/m ³
			KGV: 4 ppm	STEL: 5 ppm	.3		TEL: 4 ppm
			KGV: 16 mg/m³	STEL: 19 mg/m Sk*	ľ	511	EL: 16 mg/m³ Sk*
	Sk*		OK	SK"			oK"

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
				0.100.1111	

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Phenol	-	-		L - urine	120 mg/g Creat		
108-95-2					- urine (Phenol		Creatinine (urine -
				ure or end	the end of the	work	
			of wo	rk shift	shift		300 mg/g Creatinine
							(urine - Phenol end
							of shift)
Chemical name	Denmark	Finland	Fra	ınce	Germany DF	G	Germany TRGS
Phenol	- '	1.3 mmol/L (urine	urine	(Total	120 mg/g Creat	tinine	120 mg/g Creatinine
108-95-2		Total phenol after	Phenol) -	end of shift	(urine - Phenol	(after	(urine - Phenol (after
		the shift)			hydrolysis) en	d of	hydrolysis) end of
					shift)		shift)
					200 mg/L - Bl	LW	·
					(end of exposu	re or	
					end of shift) u	rine	
Chemical name	Hungary	Irela	Ireland		/ MDLPS		Italy AIDII
Phenol	120 mg/g Creatinine	e 120 mg/g (120 mg/g Creatinine		-		0 mg/g Creatinine -
108-95-2	(urine - Phenol end of	of urine - Phe	(urine - Phenol end of			u	rine (Phenol (with
	shift)	shi	shift)			hydr	olysis)) - end of shift
	144 µmol/mmol					-	
	Creatinine (urine - Phe	enol					
	end of shift)						
Chemical name	Latvia	Luxem	bourg R		omania		Slovakia
Phenol	-	-		120 mg/	g Creatinine -	200	mg/L (urine - Phenol
108-95-2				urine (tota	l Phenols) - end	end	of exposure or work
					of shift		shift)
Chemical name	Slovenia	Spa	iin	Sw	itzerland		United Kingdom
Phenol	120 mg/g Creatinine	e - 120 mg/g (Creatinine	250 mg/g	creatinine (urine		-
108-95-2	urine (Phenol (after				l end of shift)		
	hydrolysis)) - at the end		,		µmol/mmol [′]		
	the work shift				urine - Phenol		
					of shift)		

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

No information available.

8.2. Exposure controls

Personal protective equipment

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

safety goggles. Face protection shield.

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

89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.

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	Gloves					
Duration of contact	PPE - Glove material	Glove thickness	Break through time			
	Wear protective butyl	0.5 mm	≥8 hours			
	rubber gloves					
	Wear protective Viton™		8 hours			
	gloves					
	Polyvinyl chloride (PVC)	0.5 mm	1 hours			

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

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

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

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust. Take off

contaminated clothing and wash it before reuse.

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 stateSolidAppearanceCrystallineColourcolourlessOdourPungent.

Odour threshold No information available

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

Melting point / freezing point 40.9 °C None known Initial boiling point and boiling range181.8 °C None known Flammability No data available None known Flammability Limit in Air

Upper flammability or explosive 9.5 (vol.%); 370 (g/m³)

limits

Lower flammability or explosive 1.3 (vol.%); 50 (g/m³)

limits

Flash point 81 °C None known

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None known

@ 20°C

@ 25 °C

No information available

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Autoignition temperature

Decomposition temperature pН

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity Water solubility Solubility(ies)

Partition coefficient Vapour pressure Relative density

Bulk density Liquid Density

Relative vapour density

Particle characteristics

Particle Size Particle Size Distribution

9.2. Other information

Molecular weight 94.11 C6 H6 O Molecular formula

9.2.1. Information with regards to physical hazard classes Not applicable

715 °C

No data available

No data available No data available

Soluble in water 84 g/L

No information available No information available

3.437 mPas

1.5

0.48 hPa

1.071 g/cm3

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

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10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

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. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Toxic by inhalation.

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

(based on components). Corrosive to the eyes and may cause severe damage including

blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. Toxic in contact with skin.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.

Numerical measures of toxicity

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Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phenol	= 340 mg/kg (Rat)	= 630 mg/kg (Rabbit)	

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 severe skin burns and eye

damage.

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

burns.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.

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

Chemical name	European Union			
Phenol	Muta. 2			

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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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

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Phenol	EC50: =46.42mg/L (96h,	LC50: 8.9mg/L (96h,	-	EC50: 4.24 - 10.7mg/L
	Pseudokirchneriella	Onchorynchus mykiss)		(48h, Daphnia magna)
	subcapitata)	LC50: 11.9 - 25.3mg/L		EC50: 10.2 - 15.5mg/L
	EC50: 0.0188 -	(96h, Lepomis		(48h, Daphnia magna)
	0.1044mg/L (96h,	macrochirus)		
	Pseudokirchneriella	LC50: 11.9 - 50.5mg/L		
	subcapitata)	(96h, Pimephales		
	EC50: 187 - 279mg/L	promelas)		
	(72h, Desmodesmus	LC50: 20.5 - 25.6mg/L		
	subspicatus)	(96h, Pimephales		
		promelas)		
		LC50: 23.4 - 36.6mg/L		
		(96h, Oryzias latipes)		
		LC50: 33.9 - 43.3mg/L		
		(96h, Oryzias latipes)		
		LC50: 34.09 - 47.64mg/L		
		(96h, Poecilia reticulata)		
		LC50: 4.23 - 7.49mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 5.0 - 12.0mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 5.449 - 6.789mg/L		
		(96h, Oncorhynchus		

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mykiss)	
LC50: 7.5 - 14mg/L (96h,	
Oncorhynchus mykiss)	
LC50: =0.00175mg/L	
(96h, Cyprinus carpio)	
LC50: =11.5mg/L (96h,	
Lepomis macrochirus)	
LC50: =13.5mg/L (96h,	
Lepomis macrochirus)	
LC50: =27.8mg/L (96h,	
Brachydanio rerio)	
LC50: =31mg/L (96h,	
Poecilia reticulata)	
LC50: =32mg/L (96h,	
Pimephales promelas)	

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	
Phenol	1.5	

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 contains substance(s) classified as PBT or vPvB.

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

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

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No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number 14.2 UN proper shipping nameUN1671
Phenol, solid

14.3 Transport hazard class(es) 6.1 14.4 Packing group

Description UN1671, Phenol, solid, 6.1, II

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions A113 ERG Code 6L

IMDG

14.1 UN number or ID number 14.2 UN proper shipping nameUN1671
Phenol, solid

14.3 Transport hazard class(es) 6.114.4 Packing group II

Description UN1671, Phenol, solid, 6.1, II, Marine pollutant

14.5 Marine pollutant PEnvironmental hazards Yes14.6 Special precautions for user

Special Provisions 279

EmS-No. F-A, S-A No information available

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

ВIL

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
UN1671
Phenol, solid
6.1

14.4 Packing group

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Description UN1671, Phenol, solid, 6.1, II, Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 279
Classification code T2

ADR

14.1 UN number or ID number UN1671 **14.2 UN proper shipping name** Phenol, solid

14.3 Transport hazard class(es)14.4 Packing group6.1

Description UN1671, Phenol, solid, 6.1, II, (D/E), Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions279Classification codeT2Tunnel 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
Phenol	RG 14	-
108-95-2		

Germany

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

TA Luft (German Air Pollution Control Regulation)

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

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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 Annex XVII	Substance subject to authorisation per REACH Annex XIV
Phenol - 108-95-2	75	

Persistent Organic Pollutants

Not applicable

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

H2 - ACUTE TOXIC

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Not applicable

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International Inventories

TSCA LGC, to the best of its ability, has confirmed that the chemical substances in this product are

listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as

amended Feb 2021."

DSL/NDSL
EINECS/ELINCS
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
KECI
Contact supplier for inventory compliance status
PICCS
Contact supplier for inventory compliance status
Contact supplier for inventory compliance status
AllC
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

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H341 - Suspected of causing genetic defects

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

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Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

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

Ceiling Maximum limit value Sk* Skin designation

Method Used
Calculation method

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

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

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

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

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

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

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

National Toxicology Program (NTP)

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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 06-Aug-2024

Reason for revision Emergency contact information Endocrine Disruptor Information Chemical Safety Report

Physical and chemical properties Gloves Material

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

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