

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**758-14 Phenol**

Revision date: 04.07.2017

Product code: 75814

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

758-14 Phenol  
CAS No: 108-95-2  
Index No: 604-001-00-2  
EC No: 203-632-7

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

Water analysis

**1.3. Details of the supplier of the safety data sheet**

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Germ cell mutagenicity: Muta. 2  
Acute toxicity: Acute Tox. 3  
Acute toxicity: Acute Tox. 3  
Acute toxicity: Acute Tox. 3  
Specific target organ toxicity - repeated exposure: STOT RE 2  
Skin corrosion/irritation: Skin Corr. 1B  
Hazard Statements:  
Suspected of causing genetic defects.  
Toxic if inhaled.  
Toxic in contact with skin.  
Toxic if swallowed.  
May cause damage to organs through prolonged or repeated exposure.  
Causes severe skin burns and eye damage.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

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#### Hazard components for labelling

phenol; carbolic acid; monohydroxybenzene; phenylalcohol

**Signal word:** Danger

#### Pictograms:



#### Hazard statements

- H301 Toxic if swallowed.  
 H311 Toxic in contact with skin.  
 H331 Toxic if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H341 Suspected of causing genetic defects.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P201 Obtain special instructions before use.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

#### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

#### 2.3. Other hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol			100 %
	203-632-7	604-001-00-2		
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Skin Corr. 1B; H341 H331 H311 H301 H373 ** H314			

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Take off all contaminated clothing immediately.  
 Consult a physician. Show this safety data sheet to the doctor in attendance.

##### After inhalation

Move to fresh air.  
 Consult a physician. Show this safety data sheet to the doctor in attendance.

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**After contact with skin**

Wash off with: Polyethylene glycol 400.

Consult a physician. Show this safety data sheet to the doctor in attendance.

**After contact with eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data sheet to the doctor in attendance.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water. Induce vomiting, but only if victim is fully conscious.

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Irritation and corrosion

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>) Foam Dry powder**5.2. Special hazards arising from the substance or mixture**

Fire may liberate hazardous vapours.

**5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**Additional information**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up**

Use mechanical handling equipment. Use approved industrial vacuum cleaner for removal.

**6.4. Reference to other sections**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Do not breathe vapours/dust. Ventilators required at emission site.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep tightly closed in a dry, cool and well-ventilated place. Protect against light. Accessible only for authorized persons.

**7.3. Specific end use(s)**

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Reagent for analysis

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		4	16		STEL (15 min)	WEL

**Additional advice on limit values**

None known.

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

**Protective and hygiene measures**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

**Eye/face protection**

Safety glasses with side-shields

**Hand protection**

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact:

Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove

material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: > 30 min

**Skin protection**

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

Breathing apparatus only if aerosol or dust is formed.

Recommended Filter type: ABEK-filter

**Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	colourless
Odour:	characteristic
pH-Value (at 20 °C):	5 (50g/l)

**Changes in the physical state**

Melting point:	40,8 °C
Initial boiling point and boiling range:	181,8 °C
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Ignition temperature:	595 °C

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Flash point: 81 °C

**Explosive properties**

not applicable

Lower explosion limits: 1,3 vol. %

Upper explosion limits: 9,5 vol. %

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: no data available

**Oxidizing properties**

no data available

Vapour pressure: 0,2 hPa  
(at 20 °C)

Vapour pressure: no data available

Density (at 20 °C): 1,06 g/cm<sup>3</sup>

Bulk density: not applicable

Water solubility: 84 g/L  
(at 20 °C)**Solubility in other solvents**

no data available

Partition coefficient: no data available

Viscosity / dynamic: 3,437 mPa·s  
(at 50 °C)

Viscosity / kinematic: no data available

Flow time: no data available

Vapour density: no data available

Evaporation rate: no data available

Solvent separation test: no data available

Solvent content: no data available

**9.2. Other information**

Solid content: not applicable

Corrosive in contact with metals

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Exothermic reaction: With acid and aluminium. Oxidizing agents Strong acids and strong bases

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**10.6. Hazardous decomposition products**

None reasonably foreseeable.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

LD50/oral/rat = 317 mg/kg

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
108-95-2	phenol; carboic acid; monohydroxybenzene; phenylalcohol					
	oral	ATE 100 mg/kg				
	dermal	LD50 525 mg/kg	Rat	ERMA		
	inhalation vapour	ATE 3 mg/l				
	inhalation (4 h) aerosol	LC50 0,9 mg/l	Rat	IUCLID		

**Irritation and corrosivity**

Causes skin and eye burns.

**Sensitising effects**

No sensitisation responses were observed.

**Carcinogenic/mutagenic/toxic effects for reproduction**

H341 - Suspected of causing genetic defects.

**STOT-single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

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

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

No toxicology information is available.

**Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicity to daphnia: Daphnia magna (Water flea) EC50:10 mg/l/48h

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
108-95-2	phenol; carboic acid; monohydroxybenzene; phenylalcohol					
	Acute fish toxicity	LC50 5,7 mg/l	96 h	Lepomis macrochirus (Bluegill sunfish)	ERMA	
	Acute algae toxicity	ErC50 229 mg/l	72 h		GESTIS	
	Acute crustacea toxicity	EC50 3,1 mg/l	48 h	Ceriodaphnia Dubia (water flea)	ERMA	
	Crustacea toxicity	NOEC 0,16 mg/l	16 d	Daphnia magna (Water flea)	ERMA	

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**12.2. Persistence and degradability**

Biochemical Oxygen Demand (BOD): 1,68 g/g

Chemical Oxygen Demand (COD): 2,3 g/g

**12.3. Bioaccumulative potential**

no data available

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
108-95-2	phenol; carboic acid; monohydroxybenzene; phenylalcohol	1,5

**12.4. Mobility in soil**

no data available

**12.5. Results of PBT and vPvB assessment**

no data available

**12.6. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not flush into surface water or sanitary sewer system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

In accordance with local and national regulations.

**Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**Waste disposal number of used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

- 14.1. UN number:** UN 1671  
**14.2. UN proper shipping name:** Phenol, solid  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II

**Inland waterways transport (ADN)**

**Other applicable information (inland waterways transport)**  
Not tested

**Marine transport (IMDG)**

- 14.1. UN number:** UN 1671  
**14.2. UN proper shipping name:** Phenol, solid  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
Marine pollutant: --  
EmS: F-A,S-A

**Air transport (ICAO-TI/IATA-DGR)**

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<b>14.1. UN number:</b>	UN 1671
<b>14.2. UN proper shipping name:</b>	Phenol, solid
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	II

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:	no
Danger releasing substance:	no data available

**14.6. Special precautions for user**

Use personal protective equipment.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**Other applicable information**

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Classification according to EU Directives 67/548/EEC or 1999/45/EC  
The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water contaminating class (D):	2 - clearly water contaminating

**Additional information**

professional use

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Revision: 4.07.2017  
Safety datasheet sections which have been updated: 2, 8, 11, 12, 14  
Revision: 25.04.2016  
Safety datasheet sections which have been updated: 14

**Relevant H and EUH statements (number and full text)**

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.
H412	Harmful to aquatic life with long lasting effects.



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**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.