

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Phenol > 99 % for analysis, ACS solidified to a block in the container

Revision date: 17.01.2024

Product code: 24038

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

### 1.1. Product identifier

Phenol > 99 % for analysis, ACS solidified to a block in the container

REACH Registration Number: 01-2119471329-32-XXXX  
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

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH  
ACD  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
Telefax: 0203/5194-290  
E-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
Telephone: 0203/5194-107/117  
E-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Muta. 2; H341  
Acute Tox. 3; H331  
Acute Tox. 3; H311  
Acute Tox. 3; H301  
Skin Corr. 1B; H314  
STOT RE 2; H373  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

Signal word: Danger

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#### Pictograms:



#### Hazard statements

- H301+H311+H331 Toxic if swallowed, in contact with skin or 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.  
 H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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/doctor.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: C<sub>6</sub>H<sub>5</sub>OH  
 Molecular weight: 94,11 g/mol

#### Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	Classification (Regulation (EC) No 1272/2008)	
108-95-2	phenol	100 %
	203-632-7	604-001-00-2
		01-2119471329-32-XXXX
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H341 H331 H311 H301 H314 H373 H411	

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
108-95-2	203-632-7	phenol	100 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 850 mg/kg; oral: LD50 = 530 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3	

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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#### General information

Self-protection of the first aider

#### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water, Polyethylene glycol 400

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

#### After ingestion

Rinse mouth immediately and drink plenty of water.

(Water, to which activated charcoal may be added)

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant, corrosive

Dyspnoea, Cough

Dizziness, Dizziness

Inebriation, Cardiac arrhythmias

Circulatory collapse, Headache

Respiratory complaints, Unconsciousness

Risk of serious damage to eyes.

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

No data available

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

##### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Combustible solids

Danger of dust explosion.

Hazardous combustion products

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

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#### General advice

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

##### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid exposure - obtain special instructions before use.

Keep container tightly closed.

Do not breathe dust. Avoid dust formation.

Avoid contact with skin, eyes and clothes.

Read label before use.

Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges.

In case of warming: Vapours can form explosive mixtures with air.

Danger of dust explosion.

#### Advice on general occupational hygiene

Wash contaminated clothing prior to re-use.

Avoid contact with skin, eyes and clothes.

#### Further information on handling

Wash contaminated clothing before reuse.

Wash hands before breaks and after work.

Draw up and observe skin protection programme.

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#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed.  
storage temperature: +15°C - +25°C  
Store in a place accessible by authorized persons only.

##### Further information on storage conditions

Store in a dry place.  
Store in a well-ventilated place.  
Protect against: Light

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

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

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

##### Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-95-2	Phenol	Phenol	120 mg/g	Creatinine	End of shift

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
108-95-2	phenol			
Worker DNEL, long-term		inhalation	systemic	8 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	16 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,23 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,452 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
108-95-2	phenol	
Freshwater		0,008 mg/l
Freshwater (intermittent releases)		0,031 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,091 mg/kg
Marine sediment		0,009 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,1 mg/l
Soil		0,136 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

goggles

**Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 730 Camatril® Velours

Recommended material: NBR (Nitrile rubber) 0,4 mm

Wearing time with occasional contact (splashes): > 144 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing.

Flame-retardant protective clothing, antistatic

Wash hands before breaks and after work.

**Respiratory protection**

Respiratory protection necessary at: dust formation, aerosol or mist formation

Filtering device with filter or ventilator filtering device of type: A-(P3)

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	40,8 °C
Boiling point or initial boiling point and boiling range:	181,8 °C
Flammability:	No data available
Lower explosion limits:	1,3 vol. %
Upper explosion limits:	9,5 vol. %
Flash point:	81 °C
Auto-ignition temperature:	595 °C
Decomposition temperature:	No data available
pH-Value (at 20 °C):	~5 (50 g/l)
Viscosity / kinematic:	No data available
Water solubility: (at 20 °C)	84 g/L
Solubility in other solvents	No data available
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	log Pow: 1,47 (30 °C)
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	0,2 hPa
Vapour pressure:	No data available
Density (at 20 °C):	1,07 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	~620 kg/m <sup>3</sup>
Relative vapour density:	No data available
Particle characteristics:	No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties	
Danger of dust explosion.	
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	715 °C
Gas:	No data available
Oxidizing properties	
No data available	

**Other safety characteristics**

Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available
Solid content:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	

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

Flow time: No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

In case of warming: Vapours can form explosive mixtures with air.  
Danger of dust explosion.

**10.2. Chemical stability**

Protect against: Light

**10.3. Possibility of hazardous reactions**

Aluminium, aldehydes  
Hydrogen peroxide, Oxidising agent  
Strong acid, Strong alkali  
Formaldehyde, Nitrites, Nitrate

**10.4. Conditions to avoid**

Heat  
Light

**10.5. Incompatible materials**

Rubber articles  
Plastic articles  
metals (including their alloys)

**10.6. Hazardous decomposition products**

No data available

**Further information**

No data available

**SECTION 11: Toxicological information**

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

**Toxicokinetics, metabolism and distribution**

Avoid exposure - obtain special instructions before use.

**Acute toxicity**

Toxic if swallowed.  
Toxic in contact with skin.  
Toxic if inhaled.  
If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).  
Irritation to respiratory tract

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-95-2	phenol				
	oral	LD50 530 mg/kg	Rat	J Pharmacol Exp Ther 80: 233-240 (1944)	OECD Guideline 401
	dermal	LD50 850 mg/kg	Rabbit	Am Ind Hyg Assoc J 37: 596-606 (1976)	OECD Guideline 402
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			



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#### **Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Risk of serious damage to eyes.

#### **Sensitising effects**

Based on available data, the classification criteria are not met.

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

Suspected of causing genetic defects. (phenol)  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (phenol)  
Organs affected:  
central nervous system  
kidneys  
liver  
Haut

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Specific effects in experiment on an animal**

No data available

#### **Additional information on tests**

No data available

#### **Practical experience**

No data available

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

No data available

#### **Other information**

No data available

#### **Further information**

Irritant, corrosive  
Dyspnoea, Cough  
Dizziness, Dizziness  
Inebriation, Cardiac arrhythmias  
Circulatory collapse, Headache  
Respiratory complaints, Unconsciousness  
Risk of serious damage to eyes.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
108-95-2	phenol					
	Acute fish toxicity	LC50	8,9 mg/l	96 h	Oncorhynchus mykiss	Publication (1980) other:
	Acute algae toxicity	ErC50 mg/l	61,1	96 h	Raphidocelis subcapitata	Environ. Toxicol. Water Qual. 7: 35-48 ( other: US EPA
	Acute crustacea toxicity	EC50	3,1 mg/l	48 h	Ceriodaphnia dubia	Publication (1991) Test performance in compliance with EPA
	Fish toxicity	NOEC mg/l	0,077	60 d	Cirrhina mrigala	Publication (1984) Method: other
	Crustacea toxicity	NOEC mg/l	0,16	16 d	Daphnia magna	Ecotoxicol. Envir. Saf. 15: 72-77 (1988) other: NEN 6502

**12.2. Persistence and degradability**

100 %; 6 d  
OECD 302B  
Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
108-95-2	phenol	1,47

**BCF**

CAS No	Chemical name	BCF	Species	Source
108-95-2	phenol	17,5	Danio rerio	Publication (1985)

**12.4. Mobility in soil**

No data available

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

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

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Send to a physico-chemical treatment facility under observation of official regulations.  
Do not mix with other wastes.  
Do not empty into drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.  
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific

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to the industry and process.

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

<b>14.1. UN number or ID 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
Hazard label:	6.1
Classification code:	T2
Special Provisions:	279
Limited quantity:	500 g
Excepted quantity:	E4
Transport category:	2
Hazard No:	60
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID 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
Hazard label:	6.1
Classification code:	T2
Special Provisions:	279 802
Limited quantity:	500 g
Excepted quantity:	E4

**Marine transport (IMDG)**

<b>14.1. UN number or ID 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
Hazard label:	6.1
Special Provisions:	279
Limited quantity:	500 g
Excepted quantity:	E4
EmS:	F-A, S-A

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

<b>14.1. UN number or ID 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
Hazard label:	6.1
Special Provisions:	A113
Limited quantity Passenger:	1 kg
Passenger LQ:	Y644
Excepted quantity:	E4
IATA-packing instructions - Passenger:	669
IATA-max. quantity - Passenger:	25 kg
IATA-packing instructions - Cargo:	676
IATA-max. quantity - Cargo:	100 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

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Danger releasing substance: phenol

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

Additional information: E2

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles 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 hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 12.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Eye Dam: Eye damage

Muta: Germ cell mutagenicity

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Chronic: Chronic aquatic hazard

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

- H301 Toxic if swallowed.
- H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
- 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.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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