



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

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

- **Product identifier**
- **Trade name:** Phenol
- **Article number:** 2509
- **CAS Number:**
108-95-2
- **EC number:**
203-632-7
- **Index number:**
604-001-00-2
- **Registration number** The substance is exempt from REACH-registration.
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Ingredient for pharmaceutical drugs
- **Uses advised against** No relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
CAELO
Caesar & Loretz GmbH
Herderstr. 31
D-40721 Hilden
GERMANY
- **Further information obtainable from:**
E-mail: info@caelo.de
Tel.: +49210349940 (during regular opening hours)
- **Emergency telephone number:**
Poison Information Center Bonn
Venusberg-Campus 1, 53127 Bonn
Tel: +49 (0) 228-192400

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Muta. 2 H341 Suspected of causing genetic defects.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 1)

Hazard pictograms

GHS05



GHS06



GHS08

Signal word Danger**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.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

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.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Determination of endocrine-disrupting properties** Not applicable.

3 Composition/information on ingredients

Substances**CAS No. Description**

CAS: 108-95-2 phenol

Identification number(s)**EC number:** 203-632-7**Index number:** 604-001-00-2**Specific concentration limits**Skin Corr. 1B; H314: C \geq 3 %Skin Irrit. 2; H315: 1 % \leq C < 3 %Eye Irrit. 2; H319: 1 % \leq C < 3 %

(Contd. on page 3)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 2)

4 First aid measures

· **Description of first aid measures**

· **After inhalation:**

Bring the person out of the contaminated area to fresh air.

Call a doctor immediately.

Show product-label or this MSDS.

· **After skin contact:**

Remove contaminated clothing immediately.

Wash with polyethylene glycol 400 and then rinse with plenty amounts of water.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Seek medical advice, even if no immediate symptoms are observed.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **Most important symptoms and effects, both acute and delayed**

Central nervous system disorder

Cardiovascular disorders

Changes in haemogram

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture**

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Smoke gases.

· **Advice for firefighters**

· **Protective equipment:** In case of fire wear suitable protective clothes and respiratory protection.

· **Additional information**

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the substance.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Take up dry. Clean up with water.

Dispose contaminated material as waste according to section 13.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Contd. on page 4)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 3)

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Provide eye rinsing kit.
 - **Information about fire - and explosion protection:** No special measures required.
 - **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Protected from light
Tightly closed.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Protect from exposure to the light.
 - **Storage class:** TRHS 510: 6.1 A Combustible, acutely toxic substances
 - **Specific end use(s)** No further relevant information available.
-

8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
CAS: 108-95-2 phenol
OEL Short-term value: 16 mg/m³, 4 ppm
Long-term value: 8 mg/m³, 2 ppm
Skin, IOELV
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Dust protection mask.
- **Hand protection** Protective gloves
- **Material of gloves**
Rubber gloves
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed goggles

(Contd. on page 5)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 4)

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information**

· Physical state	Solid
· Colour:	White
· Odour:	Aromatic
· Odour threshold:	Not determined.
· Melting point/freezing point:	40.8 °C
· Boiling point or initial boiling point and boiling range	181.8 °C
· Flammability	Product is not flammable.
· Lower and upper explosion limit	
· Lower:	1.3 Vol %
· Upper:	9.5 Vol %
· Flash point:	81 °C
· Decomposition temperature:	Not determined.
· pH (50 g/l) at 20 °C	5
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water at 20 °C:	84 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	0.3 hPa
· Density and/or relative density	
· Density at 20 °C:	1.0576 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Particle characteristics	Not determined
· Other information	
· Appearance:	
· Form:	Crystalline
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	715 °C
	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
	Void

(Contd. on page 6)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 5)

· Flammable gases	Void
	Void
· Aerosols	Void
	Void
· Oxidising gases	Void
	Void
· Gases under pressure	Void
	Void
· Flammable liquids	Void
	Void
· Flammable solids	Void
	Void
· Self-reactive substances and mixtures	Void
	Void
· Pyrophoric liquids	Void
	Void
· Pyrophoric solids	Void
	Void
· Self-heating substances and mixtures	Void
	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	Void
	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Void
	Void
· Desensitised explosives	Void
	Void

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
 - aluminium
 - aldehydes
 - halogens
 - nitrites
 - nitrites
 - peroxides

(Contd. on page 7)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 6)

iron(III)-compounds

· **Hazardous decomposition products:** Phenol· **Additional information:**

Extremely hygroscopic; exothermic solution process in water, keep away from metals, glass, animal/plant tissue.

11 Toxicological information

· **Information on hazard classes as defined in Regulation (EC) No 1272/2008**· **Acute toxicity** Toxic if swallowed, in contact with skin or if inhaled.· **LD/LC50 values relevant for classification:**

Oral LD50 270 mg/kg (mouse)

317 mg/kg (rat)

Dermal LD50 669 mg/kg (rat)

630 mg/kg (rabbit)

Inhalative LC50 900 mg/m³ /8h (rat)· **Primary irritant effect:**· **Skin corrosion/irritation** Causes severe skin burns and eye damage.· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.· **Germ cell mutagenicity** Suspected of causing genetic defects.· **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.· **Aspiration hazard** Based on available data, the classification criteria are not met.· **Information on other hazards**· **Endocrine disrupting properties**

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:**

LC50 8.9 mg/L (Fish)

EC50 61–76 mg/L (algae)

3.1 mg/L (invertebrates)

21 mg/L (Microorganism)

EC10 0.077 mg/L (Fish)

· **Persistence and degradability** Easily biodegradable· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.

(Contd. on page 8)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 7)

· Results of PBT and vPvB assessment**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Endocrine disrupting properties**

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

· Other adverse effects**· Additional ecological information:****· General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· Waste treatment methods**· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to local regulations.

14 Transport information

· UN number or ID number**· ADR, IMDG, IATA**

UN1671

· UN proper shipping name**· ADR**

1671 PHENOL, SOLID

· IMDG

PHENOL, SOLID

· IATA

Phenol, solid

· Transport hazard class(es)**· ADR, IMDG, IATA****· Class**

6.1 Toxic substances.

· Label

6.1

· Packing group**· ADR, IMDG, IATA**

II

· Environmental hazards:

Not applicable.

· Special precautions for user

Warning: Toxic substances.

· Hazard identification number (Kemler code): 60**· EMS Number:**

F-A,S-A

· Maritime transport in bulk according to IMO instruments

Not applicable.

(Contd. on page 9)



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.12.2024

Version number 3.00 (replaces version 2.00)

Revision: 17.12.2024

Trade name: Phenol

(Contd. of page 8)

· Transport/Additional information:**· ADR**

- **Limited quantities (LQ)** 500 g
- **Transport category** 2
- **Tunnel restriction code** D/E

· IMDG

- **Limited quantities (LQ)** 500 g
- **UN "Model Regulation":** UN 1671 PHENOL, SOLID, 6.1, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)** Not listed
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Not listed
Conditions of restriction: 75
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **National regulations:**
- **Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)**
TRHS 510: 6.1 A Combustible, acutely toxic substances
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.
- **Reasons for alterations** This version replaces all old versions.
 - **Version number of previous version:** 2.00
 - **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Muta. 2: Germ cell mutagenicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2