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

· **Informations to product No. 2509**

· **Product name:**

Phenol cryst.
Phenolum

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

Laboratory chemicals.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H341 Suspected of causing genetic defects

H331 Toxic if inhaled

H311 Toxic in contact with skin

H301 Toxic if swallowed

H372 Causes damage to organs through prolonged or repeated exposure

H314 Causes severe skin burns and eye damage

· **P-Phrases:**

P201 Obtain special instructions before use


P202 Do not handle until all safety precautions have been read and understood

P281 Use personal protective equipment as required

P308 IF exposed or concerned:

P313 Get medical advice/attention

P264 Wash thoroughly after handling

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Acute Tox. 3 (oral/skin/resp)
Skin Corr. 1A
Muta. 2
STOT RE 2

3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

108-95-2 Phenol

• **EINECS-No.:** 203-632-7

• **Index-No.:** 604-001-00-2

• **REACH Reg. No.:** 01-2119471329-32

• **INCI-Name:** Phenol

4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, umgehend ärztliche Hilfe sicherstellen. Show product-label or this MSDS.
- **after skin contact:** Remove contaminated clothing. Wash first with Polyethylenglykol 400, then with plenty of water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water. Avoid vomiting (Danger of perforation!). Seek medical advice immediately. Do not attempt to neutralize.
- **Medical advice:**
- **The following symptoms might occur:** Systemic effect: Central nervous disorder, cardiovascular disorder, changes in haemogram.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Wear protective equipment. Keep away not protected persons. Avoid contact with substance.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS.

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7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
Not suitable materials: Metals, rubber.
- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. Store at a good ventilated place. At room temperature (+15 bis +25°C).
Protect from light. Accessible only for professional persons.
- **Advices on common storage:**
TRGS 514 "Storage of toxic and very toxic substances ..."
Do not store together with flammable substances.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

108-95-2 Phenol (100,0%)

MAK: 19 mg/m³, 5 ml/m³

BAT 300 mg/l urine

• General information:

Danger of skin resorption

Liquified Phenol: Limit: Category I.

• Personal protective equipment:


• **Respiratory protection:** Required if dusts are generated, Vapours or Aerosoles. Filter A.

• **Hand protection:** Protection gloves of rubber or nitrile rubber. Caution! Phenol can penetrate rubber

• **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** characteristic
- **Melting point / melting range:** 40,8 °C
- **Boiling point / boiling range:** 181,8 °C
- **Flash point:** 82 °C
- **Ignition temperature:** 595 °C
- **Explosion limits:**
- **lower:** 1,3 Vol %
- **upper:** 9,5 Vol %
- **Vapour pressure:** (20 °C) 0,3 hPa
- **Density:** (20 °C) 1,0576 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 82 g/l
- **pH-range:** (50 g/l, 20 °C) ca. 5

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10 Stability and reactivity

- **Materials to avoid:** Aluminium, aldehydes, halogens, nitrates, nitrites, peroxides, Iron(III)-compounds, plastic.
- **Hazardous decomposition products:** Phenol vapour.
- **Additional information:** Hygroscopic.

11 Toxicological information

RTECS#: CAS# 108-95-2: SJ3325000

LD50/LC50: RTECS:
CAS# 108-95-2: Draize Test, Rabbit, Auge: 5 mg Severe;
Draize Test, Rabbit, skin: 500 mg/24H Severe;
Draize Test, Rabbit, skin: 100 mg slight;
Inhalation, Mouse: LC50 = 177 mg/m3;
Inhalation, Mouse: LC50 = 177 mg/m3/4H;
Inhalation, rat: LC50 = 316 mg/m3;
Inhalation, rat: LC50 = 316 mg/m3/4H;
Oral, Mouse: LD50 = 270 mg/kg;
LD50 oral, Rat 317 mg/kg
LD50 = 512 mg/kg;
skin, Rabbit: LD50 = 630 mg/kg;
skin, rat: LD50 = 669 mg/kg;
skin, rat: LD50 = 1500 mg/kg

Carcinogenität: Phenol - IARC: Gruppe 3

Andere: See actual entry in RTECS for complete information. Possibly mutagene.

- **Primary irritant effect:**
- **on skin:** Corrosive effect on skin and mucous membranes.
- **on eyes:** Strong irritations and burnings. Danger of blindness.
- **on respiratory organs:** Irritations of mucous membranes, Coughing, Respiratory insufficiency.
- **Sensitization:** Sensitization with allergic manifestations on sensitive persons.
- **Sub-acute / chronic toxicity:** NTP-evaluation for cancerogenity: negative in animal experiments. Damage of liver and kidney possible.

12 Ecological information

- **Information about elimination (persistence and degradability):**

Phenol: BSB5: 1,88 g/g; CSB: 2,3 g/g; ThSB: 2,26 mg/l.

- **Behaviour in environmental systems:**

• **Mobility and bioaccumulation potential:** log P(o/w): -1,46.

- **Aquatic toxicity:**

Toxic for water organisms.


Leuciscus idus LC50 14 mg/l

C. auratus LC50 44,5 mg/l/48h

Daphnia magna LC50 100 mg/l/24h

• **General advices:** Do not allow to enter surface and ground water, waste water or soil. Danger to drinking water if even small quantities leak into the ground.

• **Water hazard class:** 2 (VwVwS-classification): hazardous for water.

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13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or organic laboratory chemicals.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Phenol, solid
- **Class:** 6.1
- **UN-number:** 1671
- **Packing group:** II
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 500g
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** 297
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS06, GHS08, GHS05
- **Signal word:** Danger
- **H-Phrases:**
H341 Suspected of causing genetic defects
H331 Toxic if inhaled
H311 Toxic in contact with skin
H301 Toxic if swallowed
H372 Causes damage to organs through prolonged or repeated exposure
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P281 Use personal protective equipment as required
P308 IF exposed or concerned:
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- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 6.1C

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16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.