

Trade name: Phenolum

Substance number: 067160

Version: 4 / CH

Date revised: 28.10.2019

Replaces Version: 3 / CH

Print date: 28.10.19

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

1.1. Product identifier

Phenolum

Item No. 06716000

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

Use of the substance/preparation

food industry, Manufacture of pharmaceutical products, Reagent for analyses

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H301
Acute Tox. 3	H311
Acute Tox. 3	H331
Skin Corr. 1B	H314
Eye Dam. 1	H318
Muta. 2	H341
STOT RE 2	H373

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.
 H341 Suspected of causing genetic defects.

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H373 May cause damage to organs through prolonged or repeated exposure.
 EUH071 Corrosive to the respiratory tract.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

Precautionary statements

P201 Obtain special instructions before use.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Phenol

SECTION 3: Composition/information on ingredients**Molecular weight**

Value	94.11	g/mol
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Hazardous ingredients**Phenol**

CAS No.	108-95-2	
EINECS no.	203-632-7	
Registration no.	01-2119471329-32-XXXX	
Concentration	>= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 3	H301
	Acute Tox. 3	H311
	Acute Tox. 3	H331
	Skin Corr. 1B	H314
	Muta. 2	H341
	STOT RE 2	H373

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 1 < 3
Skin Corr. 1B	H314	>= 3
Skin Irrit. 2	H315	>= 1 < 3

Other information

Complete text of R-phrases in Chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. Breathing with the help of a ventilator bag or ventilator. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

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After eye contact

In case of contact with eyes rinse thoroughly with water. Summon a doctor immediately.

After ingestion

Drink water in small gulps. Summon a doctor immediately. Administer activated charcoal.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water, Dry chemical extinguisher, Foam, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

The product is combustible. Vapours heavier than air. explosiv; In case of combustion evolution of dangerous gases possible. Forms explosive mixture with air are possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Do not discharge into surface waters/groundwater.

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

Do not inhale vapours. Don't touch. Ensure adequate ventilation.

6.2. Environmental precautions

Advise water authority if spillage has entered water course or drainage system. Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr). For tall amounts: Take up mechanically and collect in suitable container for disposal. Clean up affected area.

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

Work only in fume cupboards. Do not inhale substance.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value	15	-	25	°C
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Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Keep container tightly closed in a well-ventilated place. Unsuitable material: plastic materials. alloys. rubber. Do not use metal containers.

Storage classes

Storage class according to TRGS 510	6.1B	Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances
Storage category (Switzerland)	6.1	Toxic substances

Further information on storage conditions

Protect from light.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Phenol

List	SUVA				
Type	MAK				
Value	19	mg/m ³	5	ppm(V)	
Short term exposure limit	19	mg/m ³	5	ppm(V)	
Skin resorption / sensibilisation: H; Status: 2017; Remarks: H B M2; OAW, Lunge, ZNS; DFG, INRS, NIOSH, OSHA					

8.2. Exposure controls

General protective and hygiene measures

Wash contaminated clothing before reuse. Preventative skin protection. Wash hands and face after work. Work only in fume cupboards. Do not inhale dust/fumes/mist.

Respiratory protection

Filter apparatus, filter A/P3; Breathing apparatus in the event of aerosol.

Hand protection

Appropriate Material	viton		
Material thickness	70	mm	
Breakthrough time	> 480	min	

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	crystalline
Colour	colourless
Odour	characteristic

pH value

Value	appr. 5		
Concentration/H ₂ O	50	g/l	
Temperature	20	°C	

Melting point

Value	40.8	°C
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Initial boiling point and boiling range

Value	181.8	°C
Pressure	1.013	hPa

Flash point

Value	81	°C
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Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

Lower explosion limit	1.3	%(V)
Upper explosion limit	9.5	%(V)

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Vapour pressure

Value	0.2		hPa
Temperature	20	°C	

Density

Value	1.06		g/cm ³
Temperature	20	°C	

Solubility in water

Value	84		g/l
Temperature	20	°C	

Solubility(ies)

Remarks	No data available		
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Ignition temperature

Value	595		°C
Method	DIN 51794		

Decomposition temperature

Remarks	not determined		
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Viscosity

Value	3.437		mPa.s
Temperature	50	°C	

Oxidising properties

Remarks	No data available		
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9.2. Other information**Bulk density**

Value	appr. 620		kg/m ³
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Formation of explosive gas/air mixtures. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.2. Chemical stability

Protect from light.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Exothermic reaction with: Aluminium, Halogens, hydrogen peroxide (H₂O₂). Compounds of iron (III), Oxidising agents, strong acids, Strong bases, formaldehyde, Risk of explosion with: Nitrites, nitrates, peroxides, Avoid contact with: Metals, PVC

10.6. Hazardous decomposition products

No data available.

Other information

light-sensitive

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute oral toxicity

ATE	100	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity

ATE	660	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)

Phenol

Species	rat	
LD50	660	mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	0.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Skin corrosion/irritation

Species	rabbit
evaluation	corrosive

Serious eye damage/irritation (Components)

Phenol

Species	rabbit
Method	OECD 405
Remarks	Influence of the product with the eyes can lead to blindness.

Mutagenicity (Components)

Phenol

Species	mammal, species unspecified
evaluation	Information on genotoxicity in vitro available.
Method	OECD 473

Specific Target Organ Toxicity (STOT) (Components)

Phenol

Single exposure

Remarks	not determined
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Phenol

Repeated exposure

evaluation	May cause damage to organs. Organs: Nervous system
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Phenol

Organs: Kidneys

Phenol

Organs: Liver

Experience in practice

After resorption of toxic quantities: headache. Causes a state or intoxication. May lead to drowsiness and unconsciousness. collapse

SECTION 12: Ecological information ***

12.1. Toxicity

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Fish toxicity (Components)**Phenol**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	5	mg/l
Source	Ecotox Database	

Phenol

Species	guppy (<i>Poecilia reticulata</i>)	
NOEC	4	mg/l
Duration of exposure	14	d
Method	OECD 204	

Daphnia toxicity (Components)**Phenol**

Species	Daphnia	
EC5	33	mg/l
Duration of exposure	72	h
Source	IUCLID	

Phenol

Species	Ceriodaphnia spec	
EC50	3.1	mg/l
Duration of exposure	48	h
Source	US-EPA	

Phenol

Species	Daphnia magna	
EC10	0.46	mg/l
Duration of exposure	16	d
Source	ECHA	

Algae toxicity (Components)**Phenol**

Species	Scenedesmus quadricauda	
IC5	7.5	mg/l
Duration of exposure	8	d
Source	IUCLID	
Source	Toxische Grenzkonzentration	

Phenol

Species	Pseudokirchneriella subcapitata	
EC50	61.1	mg/l
Source	US-EPA	

Bacteria toxicity (Components)**Phenol**

Species	Pseudomonas putida	
EC5	64	mg/l
Duration of exposure	16	h
Source	IUCLID	

Phenol

Species	activated sludge	
EC50	766	mg/l
Duration of exposure	3	h
Method	OECD 209	

12.2. Persistence and degradability**Biodegradability (Components)****Phenol**

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Value	100	%
Duration of test evaluation	6 d	
Method	good degradability	
Remarks	OECD 302B/ISO 9888/EEC 88/302,C	
	Grade of elimination: > 70%	

Phenol

Value	85	%
Duration of test evaluation	14 d	
Method	Readily biodegradable	
	OECD 301C	

Phenol

Value	62	%
Duration of test evaluation	100 h	
Method	Readily biodegradable	
	OECD 301C	

Chemical oxygen demand (COD) (Components)**Phenol**

Value	2300	mg/g
Source	IUCLID	

Biochemical oxygen demand (BOD5) (Components)**Phenol**

Value	1680	mg/g
Duration of test	5 d	
Source	IUCLID	

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Phenol**

log Pow	1.47	
Temperature	30	°C
Source	ECHA	

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential (Components)****Phenol**

The Substance doesn't meets PBT/vPvB-criteria

12.6. Other adverse effects**General information / ecology**

Do not allow it to reach soil, ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1671	1671	1671
14.2. UN proper shipping name	PHENOL, SOLID	PHENOL, SOLID	PHENOL, SOLID
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	II	II	II
Limited Quantity	500 g		
Transport category	2		

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other regulations, restrictions and prohibition regulations

Observe employment restrictions for young people.

Observe employment restrictions for child bearing mothers and nursing mothers.

SECTION 16: Other information

Hazard statements listed in Chapter 3

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.

CLP categories listed in Chapter 3

Acute Tox. 3 Acute toxicity, Category 3
 Muta. 2 Germ cell mutagenicity, Category 2
 Skin Corr. 1B Skin corrosion, Category 1B
 STOT RE 2 Specific target organ toxicity - repeated exposure, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a

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guarantee for any specific product properties and shall not establish a legally valid relationship.