

Trade name: Resorcinolum

Substance number: 067465

Version: 2 / CH

Date revised: 18.03.2024

Replaces Version: 1 / CH

Print date: 18.03.24

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

### **1.1. Product identifier**

Resorcinolum

Item No. 06746500

#### **Substance / product identification**

INCI RESORCINOL

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

#### **Use of the substance/preparation**

Manufacture of pharmaceutical products, Active pharmaceutical substance

### **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. 4 H302

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Aquatic Acute 1 H400

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**

Warning

#### **Hazard statements**

H302

Harmful if swallowed.

H315

Causes skin irritation.

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H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.

**Precautionary statements**

P264.1 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
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.  
P330 Rinse mouth.  
P501.3 Disposal in compliance with local and national regulations.

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

contains resorcinol

**2.3. Other hazards**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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

Value	110.11	g/mol
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**Hazardous ingredients****resorcinol**

CAS No.	108-46-3	
EINECS no.	203-585-2	
Registration no.	01-2119480136-40-XXXX	
Concentration	>= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	Aquatic Acute 1	H400

ATE	oral	301	mg/kg
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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

**After inhalation**

Remove the casualty into fresh air and keep him calm. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

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Summon a doctor immediately. Never give anything by mouth to an unconscious person.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguishing measures to suit surroundings

#### **Non suitable extinguishing media**

Full water jet

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

The product is combustible. In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Nitrogen oxides (NO<sub>x</sub>); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

#### **Other information**

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

## **SECTION 6: Accidental release measures**

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

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

### **6.2. Environmental precautions**

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).

#### **Advice on protection against fire and explosion**

The product is combustible.

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

#### **Requirements for storage rooms and vessels**

Keep only in original packaging. Keep tightly closed in a dry and cool place.

#### **Hints on storage assembly**

Do not store with oxidizing agents. Do not store together with foodstuffs.

#### **Storage classes**

Storage class according to TRGS 510

11

Combustible solids

Storage category (Switzerland)

11/13

Other solid hazardous substances with classification/labelling hazardous

#### **Further information on storage conditions**

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Protect from light. Keep container tightly closed.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limit values**

##### **resorcinol**

List	SUVA			
Type	MAK			
Value	45	mg/m <sup>3</sup>	10	ppm(V)
Remarks: AugeKT HU & HautKT HU; OSHA				

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Use barrier skin cream. Wash hands and face before breaks and after work. Keep away from food-stuffs, beverages and feed-stocks. At work do not eat, drink, smoke or take drugs. Avoid contact with skin and eyes.

#### **Respiratory protection**

Breathing apparatus in the event of high concentrations. Short term: filter apparatus

#### **Hand protection**

Protective gloves

Appropriate Material rubber

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

#### **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**

<b>Physical state</b>	solid			
<b>Colour</b>	white			
<b>Odour</b>	weak			
<b>Melting point</b>				
Value	110			°C
<b>Boiling point or initial boiling point and boiling range</b>				
Value	281.4			°C
<b>Upper and lower explosive limits</b>				
Remarks	No data available			
<b>Flash point</b>				
Value	127			°C
<b>Ignition temperature</b>				
Value	605			°C
<b>pH value</b>				
Value	appr. 4	to	6	
Concentration/H <sub>2</sub> O	100	g/l		
Temperature	20	°C		

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**Partition coefficient n-octanol/water (log value)**

log Pow 0.93

**Vapour pressure**

Value 0.1 hPa

Temperature 20 °C

**Density and/or relative density**Value 1.271 g/cm<sup>3</sup>**9.2. Other information****Solubility in water**

Value 1000 g/l

Temperature 20 °C

**Bulk density**

Remarks No data available

**Other information**

The product is not dangerous for explosions.

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

No dangerous reactions known.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Avoid dust formation.

**10.4. Conditions to avoid**

Heat. Protect from light. Air. Avoid dust formation.

**10.5. Incompatible materials**

Reactions with strong oxidising agents. Ammonia, amines, nitrogen oxides, Salts of metals, Reaction with nitric acid.

**10.6. Hazardous decomposition products**In the event of fire the following can be released: nitrous oxides (NO<sub>x</sub>), Carbon monoxide and carbon dioxide**Other information**

combustible. highly reactive. sensitive to air. dust explosions. Explosible with air in a vaporous/gaseous state when heated.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE 301 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****resorcinol**

Species Rats (male/female)

510 mg/kg

Method OECD 401

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**resorcinol**

Species	rat		
LD50		301	mg/kg

**Acute dermal toxicity (Components)****resorcinol**

Species	rabbit		
LD50		2830	mg/kg

**Acute inhalative toxicity (Components)****resorcinol**

Remarks	No data available.
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**Skin corrosion/irritation (Components)****resorcinol**

Species	rabbit		
Duration of exposure		24	h
evaluation	irritant		

**Serious eye damage/irritation (Components)****resorcinol**

Species	rabbit		
Duration of exposure		72	h
evaluation	irritant - risk of serious damage to eyes		

**Sensitization (Components)****resorcinol**

Species	mouse		
evaluation	sensitizing		
Method	OECD 429		
Remarks	May cause sensitization by skin contact.		

**Subacute, subchronic, chronic toxicity (Components)****resorcinol**

Chronic toxicity			
Route of exposure	oral		
Species	Rats (male/female)		
NOAEL		80	mg/kg
Repeated exposure			
Method	OECD 408		
Source	RTECS		
Source	VG9625000		

**Mutagenicity (Components)****resorcinol**

evaluation	No mutagenicity in the Ames-test.
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**Reproduction toxicity (Components)****resorcinol**

Remarks	Indications of toxic effects are available from reproduction studies in animals.
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**Carcinogenicity (Components)****resorcinol**

Species	Salmonella typhimurium
evaluation	No negative effects
Method	Ames Salmonella Test
Remarks	Based on available data, the classification criteria are not met.

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**resorcinol**

Species rat  
Remarks negative

**Specific Target Organ Toxicity (STOT) (Components)****resorcinol**

Remarks Not applicable

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity**

Species	golden orfe ( <i>Leuciscus idus</i> )	
LC50	38.4	mg/l
Duration of exposure	48	h
Remarks	Very toxic for fishes.	
Species	Fathead minnow ( <i>Pimephales promelas</i> )	
LC50	89	
Duration of exposure	24	h

**Fish toxicity (Components)****resorcinol**

Species	Fathead minnow ( <i>Pimephales promelas</i> )	
LC50	29.5	mg/l
Duration of exposure	96	h

**Daphnia toxicity**

Species	Daphnia magna	
EC50	107.6	mg/l
Duration of exposure	24	h
Species	Daphnia magna	
LC0	1	mg/l

**Daphnia toxicity (Components)****resorcinol**

Species	Daphnia magna	
EC50	1	mg/l
Duration of exposure	48	h
Method	OECD 201	

**Algae toxicity**

Species	Scenedesmus quadricauda	
LC0	60	mg/l

**Algae toxicity (Components)****resorcinol**

Species	Raphidocelis subcapitata	
EC50	> 97	mg/l
Duration of exposure	72	h
Method	OECD 201	
Source	LS-1291-00 SDB Sigma Aldrich 20150814	

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**Bacteria toxicity (Components)****resorcinol**

Species	activated sludge		
EC50	79		mg/l
Duration of exposure	3	h	
Method	OECD 209		

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

Value	66.7		%
Duration of test	14	d	
Method	OECD 301C		
Remarks	The product is readily biodegradable according to OECD criteria.		

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow	0.93
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**12.4. Mobility in soil****General information**

No data available

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

The Substance does not meet PBT-criteria.  
This substance does not meet the vPvB-criteria.

**Results of PBT and vPvB assessment (Ingredients)****resorcinol**

The Substance doesn't meets PBT/vPvB-criterions

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

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

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

Do not allow it to reach ground water, water bodies or sewage system. Toxic for aquatic organisms.  
Hazard for drinking water supplies.

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

EWC waste code		No not dispose with rubbish.
EWC waste code		Should not be released into the sanitary sewer system.
Disposal in compliance with local and national regulations.		
EWC waste code	07	Wastes from organic chemical processes
EWC waste code	07 05	wastes from the MFSU of pharmaceuticals
EWC waste code	07 05 08*	other still bottoms and reaction residues

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.



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## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2876	2876	2876
14.2. UN proper shipping name	RESORCINOL	RESORCINOL	RESORCINOL
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

## 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

BG Data Sheet M 004 "Substances causing irritation / corrosive substances"  
ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H302 Harmful if swallowed.  
H315 Causes skin irritation.

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H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, 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 guarantee for any specific product properties and shall not establish a legally valid relationship.