

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

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

1.1. Product identifier

Resorcinolum

Item No. 06746800

Substance / product identification

CAS-No. 108-46-3

EINECS-No. 203-585-2

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

Use of the substance/preparation

Chemical for synthesis, Reagent for analyses, Manufacture of pharmaceutical products

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.

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

H315 Causes skin irritation.
 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

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

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

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

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

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

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_x); Carbon monoxide (CO); Carbon dioxide (CO₂)

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	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	11/13	

Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Protect from light. Keep container tightly closed.

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

resorcinol

List	SUVA		
Type	MAK		
Value		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

Form	Flakes		
Colour	white		
Odour	odourless		
pH value			
Value	4	to	6
Melting point			
Value	110		°C
Initial boiling point and boiling range			
Value	281.4		°C
Pressure	1013	hPa	
Flash point			
Value	127		°C
Upper/lower flammability or explosive limits			
Remarks	No data available		
Vapour pressure			
Value	0.01		hPa
Temperature	20	°C	

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

Density

Value	appr.	1.271		g/m ³
Temperature		20	°C	

Solubility in water

Value		1.4		g/l
Temperature		20	°C	

Partition coefficient: n-octanol/water

log Pow		0.93		
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9.2. Other information**Bulk density**

Remarks	No data available
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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 productsIn the event of fire the following can be released: nitrous oxides (NO_x), 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 toxicological effects****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
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Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

LD50 301 mg/kg

Acute dermal toxicity (Components)**resorcinol**Species rabbit
LD50 2830 mg/kg**Acute inhalative toxicity (Components)****resorcinol**

Remarks No data available.

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.

Reproduction toxicity (Components)**resorcinol**

Remarks Indications of toxic effects are available from reproduction studies in animals.

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.**resorcinol**

Species rat

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

Remarks negative

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

Remarks Not applicable

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 202		

Algae toxicity

Species	Scenedesmus quadricauda		
LC0	60		mg/l

Algae toxicity (Components)**resorcinol**

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

Bacteria toxicity (Components)**resorcinol**

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

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

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 Pow 0.93

12.4. Mobility in soil**General information**

No data available

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

The Substance doesn't meet PBT/vPvB-criteria

12.6. 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.

SECTION 14: Transport information

Trade name: Resorcinolum







Substance number: 067468

Version: 4 / CH

Date revised: 31.12.2020

Replaces Version: 3 / CH

Print date: 31.12.20

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

Trade name: Resorcinolum

Substance number: 067468

Version: 4 / CH

Replaces Version: 3 / CH

Date revised: 31.12.2020

Print date: 31.12.20

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.