

Trade name: Cresolum

Substance number: 072900

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

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

1.1. Product identifier

Cresolum

Item No. 07290000

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

Use of the substance/preparation

Chemical for synthesis, Solvent

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

Muta. 2 H341

Skin Corr. 1B H314

Eye Dam. 1 H318

Aquatic Chronic 3 H412

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.

H301+H311 Toxic if swallowed or in contact with skin.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
 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 Cresol; Phenol; Xylenol

SECTION 3: Composition/information on ingredients**Chemical characterization**

substances

Hazardous ingredients**Cresol**

CAS No.	1319-77-3			
EINECS no.	215-293-2			
Registration no.	01-2119565142-45-0000			
Concentration	>= 50			%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 3		H301	
	Acute Tox. 3		H311	
	Skin Corr. 1B		H314	

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note C
 DSD Directive 67/548/EEC, Annex I, Note C

Xylenol

CAS No.	1300-71-6			
EINECS no.	215-089-3			
Registration no.	01-2120114882-59-0000			
Concentration	>= 15	< 25		%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 3		H301	
	Acute Tox. 3		H311	
	Skin Corr. 1B		H314	
	Aquatic Chronic 2		H411	

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note C
 DSD Directive 67/548/EEC, Annex I, Note C

Phenol

CAS No.	108-95-2			
EINECS no.	203-632-7			
Registration no.	01-2119471329-32-XXXX			
Concentration	>= 6.9	< 10		%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 3		H301	
	Acute Tox. 3		H311	
	Acute Tox. 3		H331	

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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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. Remove affected person from danger area, lay him down. Take off contaminated clothing and shoes immediately.

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. Take medical treatment.

After skin contact

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Wash off immediately with soap and water and rinse well. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Symptomatic treatment (decontamination, vital functions).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with alcohol-resistant foam.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons.

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6.2. Environmental precautions

Retain and dispose of contaminated wash water. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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). If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original packaging. Keep container tightly closed in a well-ventilated place.

Hints on storage assembly

Do not store with oxidizing agents.

Further information on storage conditions

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Cresol

List	SUVA			
Type	MAK			
Value	22	mg/m ³	5	ppm(V)
Short term exposure limit	22	mg/m ³	5	ppm(V)
Skin resorption / sensibilisation: H; Status: 2017; Remarks: H; OAW; INRS, NIOSH, OSHA				

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

Observe the usual precautions for handling chemicals. Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before

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breaks and after work. Store work clothing separately. Avoid contact with skin and eyes.

Respiratory protection

Short term: filter apparatus; At intensive and longer exposition use self-contained breathing apparatus.
Gas filter A. Multi-purpose filter ABEK

Hand protection

Appropriate Material 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.

Gloves

Appropriate Material

nitrile rubber - NBR

Material thickness

≥ 0.425 mm

Breakthrough time

> 60 min

Gloves

Appropriate Material

Butyl rubber - Butyl

Material thickness

≥ 0.7 mm

Breakthrough time

> 480 min

Eye protection

Tightly fitting safety glasses; Safety goggles

Body protection

Protective clothing

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties****Form**

liquid

Colour

yellowish

Odour

phenol-like

pH value

Value

5 to 6

Concentration/H₂O

10 g/l

Temperature

20 °C

Melting point

Value

< 0.0 °C

Initial boiling point and boiling range

Value

190 to 205 °C

Method

DIN 51761

Flash point

Value

> 80 °C

Method

DIN EN 22719

Flammability (solid, gas)

Not self inflammable

Vapour pressure

Value

0.05 to 0.3 mbar

Temperature

20 °C

Density

Value

1.025 to 1.035 g/cm³

Method

DIN 51757

Solubility in water

Value

appr. 20 g/l

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Ignition temperature

Value	>	450	°C
Method		DIN 51794	

9.2. Other information**Other information**

Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

No decomposition if stored and applied as directed.

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	108.298	mg/kg
	1	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**Cresol**

Species	rat (male)	
LD50	121	mg/kg
Source	o-cresol	

Phenol**Xylenol**

Species	rat	
LD50	980	mg/kg
Method	OECD 425	

Acute dermal toxicity

ATE	232.177	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**Cresol**

Species	rabbit	
LD50	301	mg/kg
Source	p-cresol	

Phenol

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Species	rat	
LD50	660	mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	5.0005	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**Cresol**

Species	rat	
LC0	0.71	mg/l
Duration of exposure	1	h
Source	p-cresol	

Phenol

Remarks	Strong corrosive action on the skin and mucous membrane.
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Skin corrosion/irritation

Remarks	Corrosive action on the skin and mucous membrane.
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Serious eye damage/irritation

Remarks	strongly corrosive
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Sensitization (Components)**Phenol**

Species	guinea pig
Remarks	negative on animals
Source	IUCLID

Mutagenicity (Components)**Cresol**

Species	hamster
evaluation	Information on genotoxicity in vitro available.
Method	OECD 473
Source	CHE, CHO

Cresol

Species	mammal, species unspecified
evaluation	No experimental information on genotoxicity in vitro available.
Method	in vitro

Phenol

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

Xylenol

evaluation	No experimental information on genotoxicity in vitro available.
Method	OECD 471

Carcinogenicity (Components)**Cresol**

Species	rat
Dose	appr. 720 mg/kg
Duration of exposure	730 d
evaluation	Indications of possible carcinogenic effects in animal studies are available.
Method	OECD TG 451
Source	m,p-cresol-mix, 60:40

Experience in practice

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After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity

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	

Xylenol

Species	Fathead minnow (<i>Pimephales promelas</i>)	
LC50	10.4	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

Cresol

Species	Daphnia magna	
	7.7	mg/l
Method	DIN 38412	
Source	p-cresol	

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	

Xylenol

Species	Daphnia	
EC50	7.7	mg/l
Method	OECD 202	

Algae toxicity (Components)

Phenol

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

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Phenol

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

Bacteria toxicity (Components)**Cresol**

Species	activated sludge	
IC50	440	mg/l
Duration of exposure	2	h
Source	p-cresol	

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**

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**

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log Pow 1.47
 Temperature 30 °C
 Source ECHA

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

Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies. Product is hazardous to water.




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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	2022	2022	2022
14.2. UN proper shipping name	CRESYLIC ACID (Cresol)	CRESYLIC ACID (Cresol)	CRESYLIC ACID (Cresol)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Subsidiary risk	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	100 ml		
Transport category	2		
14.5. Environmental hazards		Marine Pollutant	

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 WGK 3

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(Germany)

Remarks

Classification according to Annex 4 VwVwS

Other regulations, restrictions and prohibition regulations

to observe: TRGS 514 "Storage of highly poisonous and poisonous substances in packagings and transportable containers".

BG Data Sheet M 018 "Phenols, Cresols and Xylenols"

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**

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.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
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 guarantee for any specific product properties and shall not establish a legally valid relationship.