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

1.1. Product identifier

Castellani solut sine colore

Item No. 18555000

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

Use of the substance/preparation

Medicinal product

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG
Industriestrasse 35
9101 Herisau

Telephone no.	0041 (0)71 353 58 58
E-mail address of person responsible for this SDS	sdb@haenseler.ch

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)

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Acute Tox. 4	H302

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

Voluntary product information following the Safety Data Sheet format

Hazard pictograms

Signal word

Warning

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
EUH208 Contains	Chlorocresol, May produce an allergic reaction.

Precautionary statements

P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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 Ascorbic acid;Resorcinol

SECTION 3: Composition/information on ingredients

Hazardous ingredients (Regulation (EC) No. 1272/2008)

Resorcinol

CAS No.	108-46-3				
EINECS no.	203-585-2				
Concentration	>=	10	<	18	%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Irrit. 2		H315		
	Aquatic Acute 1		H400		
	Eye Irrit. 2		H319		
	Acute Tox. 4		H302		

Acetone

CAS No.	67-64-1				
EINECS no.	200-662-2				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2		H225		
	Eye Irrit. 2		H319		
	STOT SE 3		H336		

Chlorocresol

CAS No.	59-50-7				
EINECS no.	200-431-6				
Concentration			<	1	%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4		H302		
	Eye Dam. 1		H318		
	Skin Sens. 1		H317		
	Aquatic Acute 1		H400		
	Acute Tox. 4		H312		

Further ingredients

Water

CAS No.	7732-18-5				
EINECS no.	231-791-2				
Concentration			>=	50	%
Advice: [4]					

Ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Concentration	>=	1	<	10	%

Advice: [4]
Classification F, R11

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225

Ascorbic acid
EINECS no. 200-066-2
Concentration >= 1 < 10 %
Advice: [4]

Methanol
CAS No. 67-56-1
EINECS no. 200-659-6
Registration no. 01-2119433307-44-XXXX
Concentration < 1 %
Advice: [4]

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

Flam. Liq. 2	H225	
Acute Tox. 3	H331	Route of exposure: inhalative
Acute Tox. 3	H311	Route of exposure: dermal
Acute Tox. 3	H301	Route of exposure: oral
STOT SE 1	H370	Eyes; Route of exposure: oral

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

STOT SE 1	H370	>= 10
STOT SE 2	H371	>= 3 < 10

Advice:
[4] Voluntary information

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. Seek medical advice immediately.

After skin contact

After contact with skin, wash immediately with plenty of water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye doctor. Shield unaffected eye.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet.

4.2. Most important symptoms and effects, both acute and delayed

In the foreground the local effect stays at first, characterized by a quickly in the depth moving damage of the tissue.

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

Hints for the physician / hazards

Risk of stomach perforation

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

recommended: alcohol resistant foam, CO2-blanket, water spray/mist

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with eyes and skin. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up rest with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Take up mechanically and collect in suitable container for disposal. Provide adequate ventilation.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Provide good ventilation of working area (local exhaust ventilation if necessary).

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	15	25	°C

Requirements for storage rooms and vessels

Keep container tightly closed in a well-ventilated place.

Further information on storage conditions

None.

7.3. Specific end use(s)

Chemical

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Acetone

List	SUVA			
Type	MAK			
Value	1200	mg/m³	500	ppm(V)
Short term exposure limit	2400	mg/m³	1000	ppm(V)

Status: 2014; Remarks: B

Resorcinol

List	SUVA			
Type	MAK			
Value			10	ppm(V)

Status: 2014

Ethanol

List	SUVA			
Type	MAK			
Value	960	mg/m³	500	ppm(V)
Short term exposure limit	1920	mg/m³	1000	ppm(V)

Pregnancy group: S; Status: 2014

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.
Multi-purpose filter ABEK

Hand protection

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness		0.4	mm
Breakthrough time	>	480	min

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour yellowish, clear
Odour phenolic

Initial boiling point and boiling range

Value	56	to	100	°C
Source	GESTIS-Stoffdatenbank (http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp)			

Flash point

Remarks Not applicable

Vapour pressure

Value	23	to	246	hPa
Temperature	20	°C		

Source	GESTIS-Stoffdatenbank (http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp)

SECTION 10: Stability and reactivity

10.1. Reactivity

None known

10.3. Possibility of hazardous reactions

Oxidising agents

10.4. Conditions to avoid

Oxidising agents

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Other information

chemical stable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	796.8127	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

Acetone

Species	rat	
LD50	5800	mg/kg
Method	OECD 401	

Resorcinol

Species	Rats (male/female)	
	510	mg/kg
Method	OECD 401	

Resorcinol

Species	Rats (male/female)	
NOAEL	80	mg/kg
Source	RTECS	

Ascorbic acid

Species	rat	
LD50	11290	mg/kg

Ascorbic acid

Species	rat	
NOAEL	2000	mg/kg
Duration of exposure	2 y	

Chlorocresol

Species	rat	
LD50	1830	mg/kg
Remarks	Ingestion causes burns of the upper digestive and respiratory tracts.	

Acute dermal toxicity (Components)

Acetone

Species	rabbit		
LD50	>	15800	mg/kg

Resorcinol

Species	rabbit		
LD50		2830	mg/kg

Chlorocresol

Species	rat		
LD50	>	2000	mg/kg

Ascorbic acid

	>	5000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute inhalative toxicity (Components)

Acetone

Species	rat		
LC50	appr.	76	mg/l
Duration of exposure		4 h	

Chlorocresol

Species	rat		
LC50	>	2.871	mg/l
Method	OECD 403		
Remarks	Strong corrosive action on the skin and mucous membrane.		

Skin corrosion/irritation

evaluation	corrosive

Serious eye damage/irritation

evaluation	corrosive
Remarks	Risk of serious damage to eyes.

Sensitization

Remarks	Based on available data, the classification criteria are not met.

Sensitization (Components)

Resorcinol

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

Ascorbic acid

Species	guinea pig
evaluation	non-sensitizing

Chlorocresol

Species	guinea pig
evaluation	sensitizing

Subacute, subchronic, chronic toxicity (Components)

Chlorocresol

Route of exposure	oral		
Species	rat (male)		
NOEL		103	mg/kg

Chlorocresol

Route of exposure	oral		
Species	rat (female)		
NOEL		134	mg/kg

Mutagenicity

evaluation: Experimental information on genotoxicity available.

Mutagenicity (Components)

Acetone

evaluation: No mutagenicity according to various in vitro tests.

Specific Target Organ Toxicity (STOT)

Remarks: Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

Acetone

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	5540		mg/l
Duration of exposure	96	h	

Resorcinol

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

Chlorocresol

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	0.92		mg/l
Duration of exposure	96	h	

Ascorbic acid

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	1020		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

Acetone

Species	Daphnia magna		
LC50	8000		mg/l
Duration of exposure	48	h	

Resorcinol

Species	Daphnia magna		
EC50	1		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Chlorocresol

Species	Daphnia magna		
LC50	3.9		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)

Acetone

NOEC	430		mg/l
Duration of exposure	96	h	

Resorcinol

Species	Pseudokirchneriella subcapitata		
EC50	> 97		mg/l
Duration of exposure	72	h	

Method	OECD 201		
Source	LS-1291-00 SDB Sigma Aldrich 20150814		

Chlorocresol

Species	Scenedesmus subspicatus		
EC50	30.62		mg/l
Duration of exposure	72	h	
Source	LS-662-00 exK001392 SDS 20141024		

Bacteria toxicity (Components)

Acetone

Species	activated sludge		
	1000		mg/l
Duration of exposure	0.5	h	
Method	OECD 209		

Resorcinol

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

Chlorocresol

Species	activated sludge		
EC50	60		mg/l
Method	OECD 209		

12.2. Persistence and degradability

Biodegradability

evaluation	readily degradable

Biodegradability (Components)

Acetone

Value	91		%
Duration of test	28	d	
evaluation	Readily biodegradable		
Method	OECD 301 B		

Resorcinol

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

Ascorbic acid

Value	100		%
Duration of test	15	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 302B/ISO 9888/EEC 88/302,C		

Ascorbic acid

Value	97		%
Duration of test	5	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 302B/ISO 9888/EEC 88/302,C		

Chlorocresol

Value	90		%
Duration of test	28	d	
evaluation	good degradability		
Method	OECD 301C		

Chemical oxygen demand (COD) (Components)

Acetone

Value	2100	mg/g

Biochemical oxygen demand (BOD5) (Components)

Acetone

Value	1900	mg/g
Duration of test	5 d	

12.3. Bioaccumulative potential

Octanol/water partition coefficient (log Pow) (Components)

Acetone

log Pow	-0.24

Ascorbic acid

log Pow	-2.0
Source	Safety Data Sheet Supplier

Chlorocresol

log Pow	3
Source	Safety Data Sheet Supplier

12.4. Mobility in soil

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.6. Other adverse effects

General information / ecology

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

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

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 3
Remarks	Classification according to Annex 4 VwVwS

15.2. Chemical safety assessment

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

SECTION 16: Other information

R-phrases listed in Chapter 3

11	Highly flammable.
21/22	Harmful in contact with skin and if swallowed.
22	Harmful if swallowed.
36	Irritating to eyes.
36/38	Irritating to eyes and skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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 Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.