



Trade name: Collodium 8%

Substance number: 211250

Version: 2 / CH

Date revised: 24.05.12

Replaces Version: 1 / CH

Date of printing: 24.05.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Collodium 8%

Item-No. 21125000

### 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

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

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Flam. Liq. 1	H224
Acute Tox. 4	H302
STOT SE 3	H336
	EUH019
	EUH066

#### Classification in accordance with EC directives

Classification	Xn, R22-R66-R67
	F+, R12-R19

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H224	Extremely flammable liquid and vapour.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Precautionary statements

P242	Use only non-sparking tools.
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P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Extremely flammable



Harmful

**R phrases**

12 Extremely flammable.  
 19 May form explosive peroxides.  
 22 Harmful if swallowed.  
 66 Repeated exposure may cause skin dryness or cracking.  
 67 Vapours may cause drowsiness and dizziness.

**S phrases**

60 This material and its container must be disposed of as hazardous waste.

**Hazardous component(s) to be indicated on label**

contains Diethyl ether

**3. Composition/information on ingredients****Hazardous ingredients****Diethyl ether**

CAS No.	60-29-7		
EINECS no.	200-467-2		
Concentration		68.9655	%
Classification	Xn, R22 F+, R12 R19 R66 R67		

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

STOT SE 3	H336
Flam. Liq. 1	H224
Acute Tox. 4	H302

**Ethanol**

CAS No.	64-17-5		
EINECS no.	200-578-6		
Concentration		20.589	%
Classification	F, R11		

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

Flam. Liq. 2	H225
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**Cellulose nitrate**

CAS No.	9004-70-0			
Concentration		7.2	8.8	%
Classification	F, R11			

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

## **4. First aid measures**

### **4.1. Description of first aid measures**

#### **After inhalation**

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. If necessary, give oxygen. Summon a doctor immediately.

#### **After skin contact**

In case of contact with skin wash off immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Consult a doctor if skin irritation persists.

#### **After eye contact**

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

#### **After ingestion**

Do not induce vomiting - aspiration hazard. Let plenty of water be drunk in small gulps. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

## **5. Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Excess of water

#### **Non Suitable extinguishing media**

Carbon dioxide, Foam, Dry chemical extinguisher, Sand

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

If a fire breaks out nearby, pressure build-up and danger of bursting are possible. Development of toxic gases; Nitrous gases (NOx); After extinction of the fire the material may be unstable and can rekindle or release toxic gases. On that score ensure that residues of the fire are thoroughly wetted with water.

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

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

Use self-contained breathing apparatus.

## **6. Accidental release measures**

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

Ensure supply of fresh air. Avoid contact with eyes and skin. Do not inhale vapours. Use personal protective clothing. Keep away from sources of ignition - No smoking.

### **6.2. Environmental precautions**

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

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

Dampen, pick up mechanically and dispose of.



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## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Never let running dry. Keep container tightly closed. Ensure adequate ventilation.

#### Advice on protection against fire and explosion

Do not smoke. Avoid impact and friction. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools. Take precautionary measures against static charges.

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

#### Recommended storage temperature

Value <= 40 °C

#### Storage stability

Storage time: 24 months

#### Requirements for storage rooms and vessels

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

#### Hints on storage assembly

Do not store together with: Alkalies, corrosive substances, Amines, Oxidizing agents, Do not store with combustible liquids.

#### Further information on storage conditions

Protect from heat. Keep away from sources of ignition. Protect from direct sunlight.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### Diethyl ether

List	SUVA			
Type	MAK			
Value	1200	mg/m <sup>3</sup>	400	ppm(V)
Short term exposure limit	1200	mg/m <sup>3</sup>	400	ppm(V)
Maximum limit value: 15 min; Pregnancy group: D; Status: 2005;				

##### Ethanol

List	SUVA			
Type	MAK			
Value	960	mg/m <sup>3</sup>	500	ppm(V)
Short term exposure limit	1920	mg/m <sup>3</sup>	1000	ppm(V)
Maximum limit value: 4x15; Pregnancy group: C; Status: 2005;				

### 8.2. Exposure controls

#### General protective and hygiene measures

Provide adequate ventilation.

#### Respiratory protection

Provide good ventilation of working area (local exhaust ventilation if necessary). Breathing apparatus in the event of gases.

#### Hand protection

Gloves (solvent-resistant)

Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Penetrating time	8	h	



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antistatic gloves

**Eye protection**

Safety glasses with side protection shield; Face shield

**Body protection**

protective overalls, antistatic

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

<b>Colour</b>	colourless to slightly yellow
<b>Odour</b>	ether-like
<b>Form</b>	viscous liquid
<b>Colour</b>	clear to slightly cloudy

**10. Stability and reactivity****10.4. Conditions to avoid**

Keep away from sources of heat and ignition. Flames. Sparks. shock. friction. At increase of temperature the stability decrease and the product will be degraded. Prevent vaporizing of the moistening medium.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, nitrous oxides (NO<sub>x</sub>), Toxic gases/vapours

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

Reference substance	Cellulose nitrate		
Species	rat		
LD50	> 2000		mg/kg
method	OECD 401		
Reference substance	Ethanol		
Species	rat		
LD50	7060		mg/kg
Reference substance	Diethyl ether		
Species	rat		
LD50	1215		mg/kg
Reference substance	Diethyl ether		
Species	Human		
LDLo	260		mg/kg

**Acute dermal toxicity**

Reference substance	Ethanol		
Species	rabbit		
LD50	> 20000		mg/kg

**Acute inhalational toxicity**

Reference substance	Ethanol		
Species	rat		
LC50	38		mg/l
Duration of exposure	10	h	
Reference substance	Diethyl ether		
Species	rat		
LC50	224		mg/l
Duration of exposure	2	h	



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**Skin corrosion/irritation**

Remarks Irritates the mucous membrane.  
Remarks Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

**Serious eye damage/irritation**

valuation irritant

**Sensitization**

Remarks No sensitisation effect known.

**Subacute, subchronic, chronic toxicity**

Remarks Change of blood count possible.

**Experience in practice**

Inhalation causes narcotic effect/intoxication. Inhalation of vapours may lead to headache, drowsiness and dizziness. Possible risk of harm to the unborn child.

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

Reference substance	Cellulose nitrate		
Species	zebra fish (Brachydanio rerio)		
LC50	> 5000		mg/l
Duration of exposure	96	h	
method	OECD 203		
Reference substance	Ethanol		
Species	zebra fish (Brachydanio rerio)		
LC50	> 8140		mg/l
Duration of exposure	48	h	
Reference substance	Diethyl ether		
Species	golden orfe (Leuciscus idus)		
LC50	2840		mg/l
Duration of exposure	48	h	
Reference substance	Diethyl ether		
Species	Fathead minnow (Pimephales promelas)		
LC50	2600		mg/l
Duration of exposure	96	h	

**Daphnia toxicity**

Reference substance	Cellulose nitrate		
Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	48	h	
method	OECD 202		
Reference substance	Diethyl ether		
Species	Daphnia magna		
EC50	165		mg/l
Duration of exposure	24	h	

**Algae toxicity**

Reference substance	Cellulose nitrate		
EC/LC50	> 10000		mg/l
Duration of exposure	78	h	

**Bacteria toxicity**

Reference substance	Cellulose nitrate		
EC50	> 10000		mg/l



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method	OECD 209		
Reference substance	Ethanol		
EC50	6500		mg/l

## 12.2. Persistence and degradability

### Biodegradability

Reference substance	Cellulose nitrate		
Value	appr. 20		%
Duration of test	28	d	
method	OECD 301 B		
Reference substance	Ethanol		
Value	> 90		%
valuation	Readily biodegradable (according to OECD criteria)		
Reference substance	Diethyl ether		
valuation	Slightly biodegradable		

## 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.

Disposal in compliance with local and national regulations.

## 14. Transport information

### Land transport ADR/RID

#### 14.1. UN number

UN 2059

#### 14.2. UN proper shipping name

NITROCELLULOSE SOLUTION, FLAMMABLE

#### 14.3. Transport hazard class(es)

Class 3

Label 3

#### 14.4. Packing group

Packing group I

### Marine transport IMDG/GGVSee

#### 14.1. UN number

UN 2059

#### 14.2. UN proper shipping name

NITROCELLULOSE SOLUTION, FLAMMABLE

#### 14.3. Transport hazard class(es)

Class 3

#### 14.4. Packing group

Packing group I

### Air transport ICAO/IATA

#### 14.1. UN number

UN 2059

#### 14.2. UN proper shipping name

NITROCELLULOSE SOLUTION, FLAMMABLE

#### 14.3. Transport hazard class(es)

Class 3

#### 14.4. Packing group



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Packing group

I

## **15. Regulatory information**

## **16. Other information**

### **R-phrases listed in chapter 3**

11	Highly flammable.
12	Extremely flammable.
19	May form explosive peroxides.
22	Harmful if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

### **Hazard statements listed in chapter 3**

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.

### **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.