Trade name: Collodium 4%

Substance number: 211200

Version: 2 / CH Replaces Version: 1 / CH Date revised: 28.12.2016

HANSELER

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

1.1. Product identifier

Collodium 4% Item No.

21120000

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

Use of the substance/preparation

Reagent for analyses

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	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)

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

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 ***

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.

Safety data sheet in accorda	ince with regul	ation (EC) I	No 1907	/2006		HÄNSELER SWISS PHARMA
Trade name: Collodium 4%						
Substance number: 211200		Version:	2 / CH			Date revised: 28.12.20
		Replaces	s Versio	n: 1/CH	I	Print date: 28.12
Precautionary state	ments ***					
P210		rom heat ho	ot surfac	es spar	s open flames	and other ignition
	sources. No			, opa	, op on nonnoe	sind carer ignition
P261	Avoid breath					
P280 P304+P340						n/face protection.
P304+P340	comfortable			resnalia	and keep at res	t in a position
P403+P233				Keep cor	ntainer tightly cl	osed.
P501.3					ional regulation	
Hazardous compone	ent(s) to be in	dicated or	n label	(Regula	tion (EC) No	. 1272/2008)
contains	Diethyl ether					
Supplemental inform	nation					
EUH066		posure may	cause	skin dryn	ess or cracking	l.
SECTION 2. Compo	oition/infor	motion	on in	aradia	nto ***	
SECTION 3: Compose Hazardous ingredier						
Diethyl ether	nis (negulatit			2000)		
CAS No.	60-29-7					
EINECS no.	200-467-2					
Concentration	>=	66			%	
Classification (Regul		1272/2008)	11000			
	STOT SE 3 Flam. Liq. 1		H336 H224			
	Acute Tox. 4		H302			
Further ingredients						
Ethanol						
CAS No.	64-17-5					
EINECS no.	200-578-6				- /	
Concentration	>=	10	<	25	%	
Advice: [4] Classification (Regul	ation (EC) No	1272/2008)				
Classification (Regu	Flam. Liq. 2	1212/2000)	H225			
	·					
Cellulose nitrate						
CAS No.	9004-70-0			10	0/	
Concentration Advice: [4]	>=	1	<	10	%	
Classification (Regul	ation (EC) No.	1272/2008)				
	Expl. 1.1	,	H201			
Water						
CAS No.	7732-18-5					
EINECS no.	231-791-2					
Concentration	>=	1	<	10	%	
Advice: [4]						
Propan-2-ol						
CAS No.	67-63-0					
EINECS no.	200-661-7					
Concentration Advice: [4]			<	1	%	

Safety data sheet in accorda	ince with regula	ation (EC) N	lo 1907	/2006	HANSELER
Trade name: Collodium 4%					
Substance number: 211200		Version:	2 / CH		Date revised: 28.12.2016
		Replaces	Versio	n: 1/CH	Print date: 28.12.16
Classification (Regul	ation (EC) No. 1	272/2008)			
(g	Flam. Liq. 2		H225		
	Eye Irrit. 2		H319		
	STOT SE 3		H336		
Methanol					
CAS No.	67-56-1				
EINECS no.	200-659-6				
Registration no.	01-21194333	07-44-XXX	X		
Concentration			<	1	%
Advice: [4]					
Classification (Regul	ation (EC) No. 1	272/2008)			
	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					
	STOT SE 1			-	
	STOT SE 2	H371	>=	3 < 10	
Advice:					
[4] Voluntary informa	ation				

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. If necessary, give oxygen. Summon a doctor immediately.

After skin contact

Wash skin thoroughly with water (15 min.). Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

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

Dizziness, Excitement, Convulsions, Nausea, Vomiting, Cardiovascular disturbance, Narcosis

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Dry powder

5.2. Special hazards arising from the substance or mixture

The product is combustible. Vapours heavier than air. Forms esplosive mixture with air are possible. In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Trade name: Collodium 4%

Substance number: 211200

Version: 2 / CH Replaces Version: 1 / CH Date revised: 28.12.2016

HANSELER

Print date: 28.12.16

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Do not inhale vapours. Ensure supply of fresh air.

6.2. Environmental precautions

Do not empty into drains. Explosive

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Send in suitable containers for recovery or disposal. Clean up affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work only in fume cupboards. Do not inhale substance. Avoid formation of aerosols.

15

Advice on protection against fire and explosion

Keep away from sources of ignition. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition. Protect from warmth. Protect from light.

25

°С

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Diethyl ether				
List	SUVA			
Туре	MAK			
Value	1200	mg/m³	400	ppm(V)
Short term exposure limit	1200	mg/m³	400	ppm(V)
Status: 2014				
Ethanol				
List	SUVA			
Туре	MAK			
Value	960	mg/m³	500	ppm(V)
Short term exposure limit	1920	mg/m³	1000	ppm(V)
Pregnancy group: S; Status: 20)14			

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection. Wash hands and face after work. Work only in fume cupboards. Do not inhale vapours. Do not inhale

afety data sheet in accordance	with regulation (EC) No 1907/2006	HÄNSELER P
rade name: Collodium 4%		
Substance number: 211200	Version: 2 / CH	Date revised: 28.12.2016
	Replaces Version: 1 / CH	Print date: 28.12.1
aerosols.		
Respiratory protection		
	ne event of vapours. Breathing apparatus in the	event of aerosol or mist
Hand protection		
Gloves		
Appropriate Material Material thickness Breakthrough time	viton 0.70 mm > 30 min	
Eye protection		
necessary		
Body protection		
	anti-static; Fire-resistant antistatic protective clo	thing
SECTION 9: Physical a	nd chemical properties ***	
9.1. Information on basic p	physical and chemical properties	
Form	liquid	
Colour	colourless to yellowish	
Odour	ether-like	
pH value		
Value	5 to 7	
Value Source	5 to 7 Manufacturer's data	
Value Source Melting point	Manufacturer's data	
Value Source Melting point Remarks	Manufacturer's data No data available	
Value Source Melting point	Manufacturer's data No data available	
Value Source Melting point Remarks Initial boiling point and I Value	Manufacturer's data No data available boiling range *** appr. 34 °	С
Value Source Melting point Remarks Initial boiling point and I Value Pressure	Manufacturer's data No data available boiling range *** appr. 34 ° 1013 hPa	С
Value Source Melting point Remarks Initial boiling point and Value Pressure Source	Manufacturer's data No data available boiling range *** appr. 34 °	C
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet	-
Value Source Melting point Remarks Initial boiling point and P Value Pressure Source Flash point Value	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40	c
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ° ty or explosive limits	С
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 * ty or explosive limits 1.7 9	°C %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 * ty or explosive limits 1.7 9	С
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Vapour pressure ***	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 9	C %(V) %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Vapour pressure *** Value	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 9 576 h	°C %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Vapour pressure ***	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 9	C %(V) %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature Source	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C	C %(V) %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet	C %(V) %(V)
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature Source Density	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet	°C %(V) %(V) hPa 9/cm ³
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Vapour pressure *** Value Temperature Source Density Value	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet 0.75 to 0.77 g	°C %(V) %(V) hPa 9/cm ³
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature Source Density Value Remarks Solubility in water Temperature	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet 0.75 to 0.77 g Relative Density according specification 20 °C	°C %(V) %(V) hPa g/cm ³
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature Source Density Value Remarks Solubility in water	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet 0.75 to 0.77 g Relative Density according specification	°C %(V) %(V) hPa g/cm ³
Value Source Melting point Remarks Initial boiling point and I Value Pressure Source Flash point Value Upper/lower flammabilit Lower explosion limit Upper explosion limit Upper explosion limit Value Temperature Source Density Value Remarks Solubility in water Temperature	Manufacturer's data No data available boiling range *** appr. 34 1013 hPa Merck KGaA Safety Data Sheet -40 ty or explosive limits 1.7 36 576 20 °C Merck KGaA Safety Data Sheet 0.75 to 0.77 g Relative Density according specification 20 °C	°C %(V) %(V) hPa g/cm ³

SECTION 10: Stability and reactivity



Trade name: Collodium 4%

Substance number: 211200

Version: 2 / CH Replaces Version: 1 / CH Date revised: 28.12.2016

Print date: 28.12.16

10.1. Reactivity

May form explosive peroxides. Formation of explosive gas/air mixtures.

10.2. Chemical stability

Protect from light.

10.3. Possibility of hazardous reactions

Keep away from sources of heat and ignition. Protect from light. Air

10.4. Conditions to avoid

Protect from light. Protect from exposure to air/oxygen (peroxide formation). Sensitive to moisture.

10.5. Incompatible materials

Reactions with air. Ozone (danger of explosion!), oxigen, Risk of explosion with: Halogens, Strong oxidising agents, Reaction with nitric acid. sulphur, hydrogen peroxide (H2O2).

10.6. Hazardous decomposition products

Peroxides

Other information

sensitive to air. Danger of explosion. Vapours and gases can form an explosive mixture with air.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity					
ATE		277.777			mg/kg
		8		(/
Method	calcula	ited value (Regulation	on (EC) No.	1272/2008)
Acute oral toxicity (Compo	nents)				
Diethyl ether					
Species	rat				
LC50		200	to	2000	mg/kg
Ethanol					
Species	rat				
LD50		7060			mg/kg
Source	Toxico	logy and A	pplied Ph	narmacolog	y. Vol. 16, Pg. 718, 1970.
Cellulose nitrate					
Species	rat				
LD50	>	2000			mg/kg
Propan-2-ol					
Species	rat				
LD50		5840			mg/kg
Method	OECD	401			
Acute dermal toxicity (Com	ponen	ts)			
Propan-2-ol					
Species	rabbit				
LD50		13900			mg/kg
Method	OECD	402			
Acute inhalative toxicity (C	ompon	ents)			
Diethyl ether					
Species	rat				
LĊ50	>	20			mg/l
					-

Safety data sheet in accordance	with regul	ation (EC)	No 1907/2006	
Trade name: Collodium 4%				
Substance number: 211200		Version:	2 / CH	Date revised: 28.12.207
			s Version: 1 / CH	Print date: 28.12.
Duration of exposure		4	h	
Propan-2-ol		7		
Species	rat			
LC50	>	25		mg/l
Duration of exposure		6	h	mg/i
Administration/Form	Vapor	-		
Method	OECE			
Sensitization (Componer	nts)			
Diethyl ether				
Species	guinea	a pig		
evaluation		ensitizing		
Experience in practice				
	lungs can	occur whic	h can lead to quick	se of swallowing with subsequent i intake and damage of other organ is.
Other information				
Observe the usual precau	tions for h	andling che	micals.	
		and ing one		
SECTION 12: Ecologica	l inforn	<u>nation</u>		
12.1. Toxicity				
Fish toxicity				
•	Quant	itative data	concerning the eco	plogical effect are not available.
Fish toxicity Remarks		itative data	concerning the eco	blogical effect are not available.
Fish toxicity Remarks Fish toxicity (Componen		itative data	concerning the eco	blogical effect are not available.
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether	ts)			blogical effect are not available.
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species	ts)	n orfe (Leuc		-
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50	t s) golder			ological effect are not available. mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure	t s) golder	n orfe (Leuc 100	siscus idus)	-
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate	t s) golder >	n orfe (Leuc 100 48	iscus idus) h	-
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species	t s) golder >	n orfe (Leuc 100 48 fish (Brach	siscus idus)	mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50	ts) golder > zebra	n orfe (Leuc 100 48	iscus idus) h	-
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species	ts) golder > zebra	n orfe (Leuc 100 48 fish (Brach 5000 96	ciscus idus) h ydanio rerio)	mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method	ts) golder > zebra >	n orfe (Leuc 100 48 fish (Brach 5000 96	ciscus idus) h ydanio rerio)	mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol	ts) golder > zebra > OECE	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203	ciscus idus) h ydanio rerio) h	mg/l mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method	ts) golder > zebra > OECE	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203	ciscus idus) h ydanio rerio)	mg/l mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species	ts) golder > zebra > OECE Fathe	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow	ciscus idus) h ydanio rerio) h	mg/l mg/l elas)
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure Method	ts) golder > zebra > OECE Fathe	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow	ciscus idus) h ydanio rerio) h	mg/l mg/l elas)
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure Method	ts) golder > zebra > OECE Fathe	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640	ciscus idus) h ydanio rerio) h	mg/l mg/l elas)
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Duration of exposure Method	ts) golder > zebra > OECE Fathe	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow	ciscus idus) h ydanio rerio) h	mg/l mg/l elas) mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species	ts) golder > zebra > OECE Fathe onents) Daphr	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna	ciscus idus) h ydanio rerio) h	mg/l mg/l elas)
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50	ts) golder > zebra > OECE Fathe onents) Daphr	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l
Fish toxicity Remarks Fish toxicity (Component Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure	ts) golder > zebra > OECE Fathe pnents) Daphr >	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 hia magna 100 48	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate	ts) golder > zebra > OECE Fathe pnents) Daphr >	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species	ts) golder > zebra > OECE Fathe pnents) Daphr >	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 hia magna 100 48 hia magna	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species EC50	ts) golder > zebra > OECE Fathe pnents) Daphr >	n orfe (Leud 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100 48 nia magna 10000 48	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l
Fish toxicity Remarks Fish toxicity (Component Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Method	ts) golder > zebra > OECE Fathe Daphr > Daphr >	n orfe (Leud 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100 48 nia magna 10000 48	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l
Fish toxicity Remarks Fish toxicity (Componen Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure	ts) golder > zebra OECE Fathe Daphr > Daphr > OECE	n orfe (Leud 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100 48 nia magna 10000 48	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l
Fish toxicity Remarks Fish toxicity (Component Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Method Propan-2-ol	ts) golder > zebra OECE Fathe Daphr > Daphr > OECE	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100 48 nia magna 10000 48 0 202	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l
Fish toxicity Remarks Fish toxicity (Component Diethyl ether Species LC50 Duration of exposure Cellulose nitrate Species LC50 Duration of exposure Method Propan-2-ol Species LC50 Daphnia toxicity (Compo Diethyl ether Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Cellulose nitrate Species EC50 Duration of exposure Method Propan-2-ol Species	ts) golder > zebra OECE Fathe Daphr > Daphr > OECE	n orfe (Leuc 100 48 fish (Brach 5000 96 0 203 ad minnow 9640 nia magna 100 48 nia magna 10000 48 0 202 nia magna	ciscus idus) h ydanio rerio) h (Pimephales prome	mg/l mg/l elas) mg/l mg/l

Trade name: Collodium 4% Substance number: 211200 Cellulose nitrate					
Cellulose nitrate					
		Version	: 2 / CH		Date revised: 28.12.201
		Replace	es Version: 1/	СН	Print date: 28.12.1
LC50	>	10000		mg/l	
Duration of exposure		78	h	0	
Method	OECD	201			
Propan-2-ol Species	Soono	desmus su	ibaniaatua		
EC50	>	100	uspicatus	mg/l	
Duration of exposure		72	h	5	
Bacteria toxicity (Compone	ents)				
Cellulose nitrate					
EC50	>	10000		mg/l	
Method	OECD	209			
Propan-2-ol EC50		100		ma/l	
	>			mg/l	
12.2. Persistence and degrad	-	/			
Biodegradability (Compone	ents)				
Cellulose nitrate					
Value	appr.	20	D	%	
Duration of test Method		28 301 B	Days		
Propan-2-ol	OLCD	501 D			
Value		53		%	
Duration of test		5	d		
evaluation	Readil	ly biodegra	dable		
12.6. Other adverse effects					
General information / ecolo	ogy				
Do not allow it to reach soil,	ground	water, wate	er bodies or se	wage system.	
	-				
<u>SECTION 13: Disposal co</u>	nside	erations	<u>5</u>		
13.1. Waste treatment metho	ds				
Disposal recommendation		e produc	t		
Disposal in compliance with		-			
Disposal recommendation			- galation of		
Dispose of as unused produ	-	lonaging			
	•				
SECTION 14: Transport ir	nform	ation **	**		
Land transport ADR/RID ***					
14.1. UN number					
UN 2059					
14.2. UN proper shipping nam	ne			,	
NITROCELLULOSE SOLUT 14.3. Transport hazard class(AMMABLE	= (Diethyl ether	r)	
Class	3				
Label	3				
14.4. Packing group					
Packing group Limited Quantity	1 0				
Transport category	1				
Tunnel restriction code	В				

	with regulation (EC) No 1907/2006	HANSELER C
rade name: Collodium 4%		
Substance number: 211200	Version: 2 / CH	Date revised: 28.12.201
	Replaces Version: 1 / CH	Print date: 28.12.1
Marine transport IMDG/GC 14.1. UN number UN 2059 14.2. UN proper shipping r NITROCELLULOSE SOL 14.3. Transport hazard class	a me .UTION, FLAMMABLE (Diethyl ether)	
14.4. Packing group Packing group	1	
14.3. Transport hazard clas Class	a me .UTION, FLAMMABLE (Diethyl ether)	
14.4. Packing group Packing group	I	
15.1. Safety, health and er or mixture	vironmental regulations/legislation s	becific for the substance
Water Hazard Class (Ge	rmany)	
Water Hazard Class	rmany) WGK 3	
•	• •	
Water Hazard Class (Germany)	WGK 3 Classification according to Annex 4 VwVwS	
Water Hazard Class (Germany) Remarks	WGK 3 Classification according to Annex 4 VwVwS prmation	
Water Hazard Class (Germany) Remarks	WGK 3 Classification according to Annex 4 VwVwS prmation	
Water Hazard Class (Germany) Remarks SECTION 16: Other info Hazard statements lister H224 H302 H336	WGK 3 Classification according to Annex 4 VwVwS ormation d in Chapter 3 Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness.	
Water Hazard Class (Germany) Remarks SECTION 16: Other info Hazard statements lister H224 H302 H336 CLP categories listed in	WGK 3 Classification according to Annex 4 VwVwS ormation d in Chapter 3 Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness. Chapter 3	
Water Hazard Class (Germany) Remarks SECTION 16: Other info Hazard statements lister H224 H302 H336	WGK 3 Classification according to Annex 4 VwVwS ormation d in Chapter 3 Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness.	
Water Hazard Class (Germany) Remarks SECTION 16: Other info Hazard statements lister H224 H302 H336 CLP categories listed in Acute Tox. 4 Flam. Liq. 1	WGK 3 Classification according to Annex 4 VwVwS ormation d in Chapter 3 Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness. Chapter 3 Acute toxicity, Category 4 Flammable liquid, Category 1 Specific target organ toxicity - single expose	
Water Hazard Class (Germany) Remarks SECTION 16: Other info Hazard statements listed H224 H302 H336 CLP categories listed in Acute Tox. 4 Flam. Liq. 1 STOT SE 3 Supplemental informatio Relevant changes compa This information is based	WGK 3 Classification according to Annex 4 VwVwS ormation d in Chapter 3 Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness. Chapter 3 Acute toxicity, Category 4 Flammable liquid, Category 1 Specific target organ toxicity - single expose	ure, Category 3 sheet are marked with: *** should not constitute a