



Trade name: Collodium 4% in Aceton

Date revised: 20.08.09

Dangerous substance number: 211150

Version: 1 / CH

Date of printing: 20.08.09

01. Identification of the substance/preparation and of the company/undertaking

Trade name

Collodium 4% in Aceton

Item-No. 21115000

Company/undertaking identification

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

Emergency telephone 0041 (0)44 251 51 51

02. Hazards identification

Hazard symbols

F+ Extremely flammable
Xi Irritant

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.

03. Composition / information on ingredients

Hazardous ingredients

Acetone

CAS no. 67-64-1

EINECS no. 200-662-2

Concentration >= 50 %

Classification Xi, R36

F, R11

R66

R67

Cellulose nitrate

Concentration >= 1 < 10 %

Classification F, R11

04. First aid measures

General information

Take affected person to fresh air.. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air.. If the patient is likely to become unconscious, place and transport in stable sideways position.. Take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well.. Consult a doctor if skin irritation persists.

After eye contact

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Separate eyelids, wash the eyes thoroughly with water (15 min.).. Seek medical aid immediately.

After ingestion

Do not induce vomiting.. Let plenty of water be drunk in small gulps.. Never give anything by mouth to an unconscious person.. Ensure supply of fresh air.. Summon a doctor immediately.

05. Fire-fighting measures**Suitable extinguishing media**

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

Non Suitable extinguishing media

Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

If a fire breaks out nearby, pressure build-up and danger of bursting are possible.; Carbon monoxide (CO); Nitrous gases (NOx); Can build mixtures of gas and air which are capable of explosion.; 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.

Special protective equipment for fire-fighting

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

Other information

Cool endangered containers with water spray jet.

06. Accidental release measures**Personal precautions**

Wear protective equipment. Keep away unprotected persons.. Ensure supply of fresh air.. Avoid contact with eyes and skin.. Do not inhale vapours.. Keep away from sources of ignition - No smoking.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.. Do not discharge into the subsoil/soil.. Prevent spread over a wide area (e.g. by containment or oil barriers).. Advise water authority if spillage has entered water course or drainage system.

Methods for cleaning up

Send in suitable containers for recovery or disposal.

07. Handling and storage**Handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).. Provide good room ventilation even at ground level (vapours are heavier than air).. Open and handle container with care.. Never let running dry.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.. Vapours can form an explosive mixture with air.. Take precautionary measures against static charges.. Use explosion-proof equipment/fittings and non-sparking tools.. Risk of explosion if the liquid enters the drains.. Avoid impact and friction.

Storage**Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed.. Keep tightly closed in a dry and cool place.. explosion proof. Provide solvent-resistant and impermeable floor.. Suitable materials: PE/PTFE.

Hints on storage assembly

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



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Further information on storage conditions

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

Recommended storage temperature

Value 15 - 25 °C

08. Expose controls/personal protection**Exposure limit values****Acetone**

Type	MAK			
Value	1200	mg/m ³	500	ppm(V)
Short term exposure limit	2400	mg/m ³	1000	ppm(V)
Short-term exposure limit	4x15			
Remarks	B			

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs. Do not inhale vapours. Avoid contact with eyes and skin. Provide adequate ventilation.

Occupational exposure controls**Respiratory protection**

Provide good ventilation of working area (local exhaust ventilation if necessary).; Breathing apparatus in the event of gases.; Short term: filter apparatus, filter AX

Hand protection

Gloves (solvent-resistant)
 Appropriate Material Butyl rubber - Butyl
 Material thickness 0.5 mm
 Penetrating time >= 4 h
 Not suitable: gloves made of thick material
 Not suitable: leather gloves
 Not suitable: rubber gloves
 Not suitable: PVC gloves

Eye protection

Safety glasses with side protection shield; Face shield

Skin protection

protective overalls, antistatic

09. Physical and chemical properties**General information**

Form	viscous liquid
Colour	clear to slightly cloudy
Colour	colourless to slightly yellow
Odour	ether-like

Important health, safety and environmental information**Density**

Value	0.800	to	0.820	g/cm ³
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pH

Value	5.0	to	7.0
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log Pow

log Pow	< 0.0
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Remarks	Due to the distribution coefficient n-octanol/water, accumulation in
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organisms is possible.

10. Stability and reactivity

Conditions to avoid

To avoid thermal decomposition, do not overheat.. Protect from light.

Materials to avoid

Reactions with strong acids., Reactions with oxidising agents., Alkaline metals

Hazardous decomposition products

Flammable gases/vapours, Irritant gases/vapours, Peroxides

11. Toxicological information

Acute toxicity / further data

Acute oral toxicity

Reference substance	Cellulose nitrate	
Species	rat	
LD50	> 2000	mg/kg
method	OECD 401	
Remarks	no toxicity	

Reference substance	Acetone	
Species	rat	
LD50	5800	mg/kg

Acute dermal toxicity

Reference substance	Acetone	
Species	rabbit	
LD50	20000	mg/kg

Acute inhalational toxicity

Reference substance	Acetone	
Species	rat	
LC50	76	mg/l
Duration of exposure	4	h

Irritant/corrosive effects

Irritant effect on skin

Reference substance	Cellulose nitrate	
Species	rabbit	
Duration of exposure	4	h
valuation	non-irritant	
method	OECD 404	
Reference substance	Acetone	
Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.	

Irritant effect on eyes

Reference substance	Cellulose nitrate	
Species	rabbit	
Duration of exposure	24	
valuation	non-irritant	
method	OECD 405	
Reference substance	Acetone	
valuation	irritant	

Effects after repeated or prolonged exposition (subacute, subchronic, cronic)

Subacute, subchronic, chronic toxicity

Reference substance	Acetone
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Remarks

Chronic exposure may cause serious damage of skin.

12. Ecological information

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	Acetone		
Species	Bluegill (Lepomis macrochirus)		
LC50	8300		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	Acetone		
Species	Daphnia magna		
	12600		mg/l
Duration of exposure	48	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
method	OECD 209		
Reference substance	Acetone		
Species	Pseudomonas putida		
EC5	1700		mg/l
Duration of exposure	16	h	

Evaluation of persistence and bioaccumulation potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not possible.

13. Disposal considerations

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information

Land transport ADR/RID

UN number	2059
Class	3
Packing group	I
Label	3
Technical name	NITROCELLULOSE SOLUTION, FLAMMABLE

Marine transport IMDG/GGVSee

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UN number	2059
Class	3
Packing group	I
Technical name	NITROCELLULOSE SOLUTION, FLAMMABLE

Air transport ICAO/IATA

UN number	2059
Class	3
Packing group	I
Technical name	NITROCELLULOSE SOLUTION, FLAMMABLE

15. Regulatory information**Hazard symbols**

F+	Extremely flammable
Xi	Irritant

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

9	Keep container in a well-ventilated place.
16	Keep away from sources of ignition - No smoking.
29	Do not empty into drains.
33	Take precautionary measures against static discharges.

16. Other information**R-phrases of the ingredients listed in chapter 3**

11	Highly flammable.
36	Irritating to eyes.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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.