

Trade name: Benzinum medicinale

Substance number: 153000

Version: 12 / CH

Date revised: 06.06.2019

Replaces Version: 11 / CH

Print date: 06.06.19

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

1.1. Product identifier

Benzinum medicinale

Item No. 15300000

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

Use of the substance/preparation

Industrial 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)

Flam. Liq. 2 H225

Skin Irrit. 2 H315

STOT SE 3 H336

Asp. Tox. 1 H304

Aquatic Chronic 2 H411

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

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H304

May be fatal if swallowed and enters airways.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

P331 Do NOT induce vomiting.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane;
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6,
isoalkanes, <5% n-hexane

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

EINECS no.	921-024-6	
Registration no.	01-2119475514-35-XXXX	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Skin Irrit. 2	H315
	STOT SE 3	H336
	Asp. Tox. 1	H304
	Aquatic Chronic 2	H411

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

EINECS no.	927-510-4	
Registration no.	01-2119475514-35-XXXX	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Skin Irrit. 2	H315
	STOT SE 3	H336
	Asp. Tox. 1	H304
	Aquatic Chronic 2	H411

Hydrocarbons, C6, isoalkanes, <5% n-hexane

CAS No.	64742-49-0	
EINECS no.	931-254-9	
Registration no.	01-2119484651-34-XXXX	
Concentration	>= 25 < 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Skin Irrit. 2	H315
	STOT SE 3	H336
	Asp. Tox. 1	H304
	Aquatic Chronic 2	H411

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Remove affected person from danger area. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. Seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

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

After eye contact

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

After ingestion

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

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

Dizziness, Unconsciousness, Nausea, Vomiting, CNS Disturbance, Narcosis, respiratory moderation

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Dry powder, Extinguishing measures to suit surroundings, Extinguish greater fire with water spray or alcohol-resistant foam.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Forms explosive mixture with air are possible. Vapours heavier than air. Can build mixtures of gas and air which are capable of explosion. In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

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.

6.2. Environmental precautions

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Do not discharge into the drains/surface waters/groundwater. Do not empty into drains, caverns and basements. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). 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). Provide good room ventilation even at ground level (vapours are heavier than air). Handle and open container with care. Avoid formation of aerosols. Take action to prevent static discharges.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

explosion proof. Provide solvent-resistant and impermeable floor.

Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

Further information on storage conditions

Keep container tightly closed, cool and dry. Keep container tightly closed. Protect from direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	773	mg/kg
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2035	mg/m ³
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	699	mg/kg
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	608	mg/m ³
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	699	mg/kg
Source	Safety Data Sheet Supplier	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	300	mg/kg/d
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2085	mg/m ³
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	149	mg/kg/d
Source	Safety Data Sheet Supplier	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	477	mg/m ³
Source	Safety Data Sheet Supplier	

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Concentration	149	mg/kg/d

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	13964	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5306	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1377	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1137	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1301	mg/kg/d

8.2. Exposure controls**Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Store work clothing separately. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

Respiratory protection

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

Hand protection

Gloves (solvent-resistant)

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Appropriate Material nitrile rubber - NBR
 Material thickness 0.35 mm
 Not suitable: rubber gloves
 Not suitable: PVC gloves
 Not suitable: leather gloves
 Not suitable: gloves made of thick material

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant protective clothing

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

Form Liquid
Colour colourless
Odour slightly perceptible

Odour threshold

Remarks No data available

pH value

Remarks No data available

Freezing point

Remarks No data available

Initial boiling point and boiling range

Value 48 to 105 °C

Flash point

Value < 0 °C
 Method DIN 51755

Evaporation rate

Remarks No data available

Upper/lower flammability or explosive limits

Lower explosion limit 0.6 %(V)
 Upper explosion limit 7.4 %(V)

Vapour pressure

Value 190 hPa
 Temperature 20 °C
 Source Safety Data Sheet Supplier

Vapour density

Remarks No data available

Density

Value 0.688 g/cm³
 Temperature 20 °C
 Method ASTM D 1298

Solubility in water

Remarks virtually insoluble

Auto-ignition temperature

Value > 200 °C

Efflux time

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Remarks

No data available

9.2. Other information**Other information**

Forms explosive mixture with air are possible.

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Heat. Flames. Sparks

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Flammable gases/vapours, Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	rat	
LD50	> 5840	mg/kg
Method	OECD 401	
Source	Analogous	

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)**Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	rat	
LD50	> 2920	mg/kg
Method	OECD 402	
Source	Analogous	

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Species	rat	
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LC50	>	3000	mg/kg
Method		OECD 402	

Acute inhalative toxicity (Components)**Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Species	rat		
LC50	>	20	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	rat		
LC50	>	23.3	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		
Source	Analogous		

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Species	rat		
LC50	>	20	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

Skin corrosion/irritation

Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.
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Serious eye damage/irritation

Remarks	slightly irritating (Eye)
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Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

evaluation	non-sensitizing
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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

evaluation	non-sensitizing
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Hydrocarbons, C6, isoalkanes, <5% n-hexane

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity

Remarks	Chronic exposure causes damage of respiratory organs.
Remarks	Chronic exposure may cause serious damage of skin.

Mutagenicity (Components)**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

evaluation	No experimental indications on genotoxicity in vivo found.
Source	Analogous

Hydrocarbons, C6, isoalkanes, <5% n-hexane

evaluation	No experimental indications on genotoxicity in vivo found.
Source	Analogous

Experience in practice

Causes a numb feeling.

Other information

The toxicological data mentioned are derived from on analogous product.

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SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Species	red killifish	
LC50	1	mg/l
Duration of exposure	48	h
Source	Analogous	

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	11.4	mg/l
Duration of exposure	96	h

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	13.4	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Species	Daphnia magna	
NOEC	0.17	mg/l
Duration of exposure	21	d

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Species	Daphnia magna	
LOEC	0.32	
Duration of exposure	21	d

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna	
NOEC	0.17	mg/l
Duration of exposure	21	d
Source	Analogous	

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Species	Daphnia magna	
LC50	3.87	mg/l
Duration of exposure	48	h
Source	Analogous	

Algae toxicity (Components)

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Species	Pseudokirchneriella subcapitata	
EC50	30	mg/l
Duration of exposure	72	h
Method	OECD 201	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	Pseudokirchneriella subcapitata	
NOEC	10	mg/l
Duration of exposure	72	h
Source	Analogous	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Species	Pseudokirchneriella subcapitata	
EC50	10 to 30	mg/l
Duration of exposure	72	h

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Source	Analogue	
Hydrocarbons, C6, isoalkanes, <5% n-hexane		
Species	Pseudokirchneriella subcapitata	
ErC50	55	mg/l
Duration of exposure	72	h
Source	Analogue	
Hydrocarbons, C6, isoalkanes, <5% n-hexane		
NOEC	30	mg/l
Duration of exposure	72	h

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Value	81	%
Duration of test	28	d
evaluation	Readily biodegradable	
Source	Analogue	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Value	98	%
Duration of test	28	d
evaluation	Readily biodegradable	
Source	Analogue	

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Value	98	%
Duration of test	28	d
evaluation	Readily biodegradable	
Source	Analogue	

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.

Evaluation of persistence and bioaccumulation potential (Components)

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

The Substance doesn't meet PBT/vPvB-criteria

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

The Substance doesn't meet PBT/vPvB-criteria

Hydrocarbons, C6, isoalkanes, <5% n-hexane

The Substance doesn't meet PBT/vPvB-criteria

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system. Very toxic to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations for the product

EWC waste code

No not dispose with rubbish.

In accordance with regulations for special waste, must be taken, to an authorised special waste incineration plant.

EWC waste code




Should not be released into the sanitary sewer system.

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	3295	3295	3295
14.2. UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	1 I		
Transport category	2		

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

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

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

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H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Skin Irrit. 2	Skin irritation, Category 2
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.