

Trade name: Alcohol benzylicus

Substance number: 151400

Version: 9 / CH

Date revised: 09.05.2023

Replaces Version: 8 / CH

Print date: 09.05.23

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

1.1. Product identifier

Alcohol benzylicus

Item No. 15140000

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

Use of the substance/preparation

Industrial solvent, Colours, Preservative, Reagent for analyses, Component of cosmetic products, Digital ink

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)

Acute Tox. 4 H302

Eye Irrit. 2 H319

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

Warning

Hazard statements

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

Precautionary statements

P264.1

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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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.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501.3 Disposal in compliance with local and national regulations.

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

contains benzyl alcohol

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Molecular weight**

Value	108.14	g/mol
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Hazardous ingredients**benzyl alcohol**

CAS No.	100-51-6	
EINECS no.	202-859-9	
Registration no.	01-2119492630-38-0021	
Concentration	>= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Eye Irrit. 2	H319
	Acute Tox. 4	H332

ATE	oral	1'230	mg/kg
ATE	dermal	2'000	mg/kg
ATE	inhalative, Vapors	11	mg/l

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take affected person to fresh air. Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. Take medical treatment.

After skin contact

Remove contaminated clothing. Wash off immediately with soap and water and rinse well. Consult a doctor if symptoms occur.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. By continuous complaints consult a physician.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. By continuous complaints consult a physician.

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

Gastrointestinal complaints, CNS depression, Cardiovascular disturbance

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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

Alcohol-resistant foam, Carbon dioxide, Dry chemical extinguisher, Water mist

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO₂); Development of toxic gases

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Cool closed containers exposed to fire with water.

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. Avoid contact with eyes and skin. Keep away sources of ignition. Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation. Flush away residues with water.

6.4. Reference to other sections

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). Keep container tightly closed. Avoid formation of aerosols. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

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7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 2 - 8 °C

Requirements for storage rooms and vessels

Keep in a cool place. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Product is hygroscopic. Protect from light.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

benzyl alcohol

List	SUVA			
Type	MAK			
Value	22	mg/m ³	5	ppm(V)
Remarks: H SSc; AW; NIOSH				

Derived No/Minimal Effect Levels (DNEL/DMEL)

benzyl alcohol

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Acute			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	110			mg/m ³

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	22			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Acute			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	40			mg/kg/d

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	8			mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	27	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5.4	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d

Predicted No Effect Concentration (PNEC)**benzyl alcohol**

Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	5.27	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0.1	mg/l

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Type of value	PNEC		
Type	Marine sediment		
Concentration	0.527		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0.456		mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	39		mg/l

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. Do not inhale gases/vapours/aerosols. Avoid prolonged and/or repeated contact with skin. At work do not eat, drink, smoke or take drugs.

Respiratory protection

Breathing apparatus in the event of gases. Gas filterA.

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.425	mm	
Breakthrough time	>= 4	h	
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	>= 0.7	mm	
Breakthrough time	>= 8	h	

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

Body protection

protective overalls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid		
Colour	colourless		
Odour	fruity		
Melting point			
Value	-15.3		°C
Boiling point or initial boiling point and boiling range			
Value	205.3		°C

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Upper and lower explosive limits

Lower explosion limit	1.3	%(V)
Upper explosion limit	13	%(V)

Flash point

Value	101	°C
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Ignition temperature

Value	436	°C
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Viscosity

Value	0.006	Pa.s
Temperature	20	°C

Solubility(ies)

Ethanol	
Remarks	soluble
Diethyl ether	
Remarks	soluble
Trichloromethane (Chloroform)	
Remarks	soluble

Partition coefficient n-octanol/water (log value)

log Pow	1.10
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Vapour pressure

Value	0.07	hPa
Temperature	20	°C

Density and/or relative density

Value	1.05	
Temperature	20	°C

Relative vapour density

Value	3.7
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9.2. Other information**Solubility in water**

Remarks	soluble
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Auto-ignition temperature

Value	435	°C
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Other information

Forms explosive mixture with air are possible.

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

Reactions with oxidising agents. Isocyanates, Aluminium, Acids, Metals

10.2. Chemical stability

Protect from atmospheric moisture and water.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Flames. Sparks. Do not store at temperatures below -5 °C. Water. Protect from light and atmospheric moisture.

10.5. Incompatible materials

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Acids, Oxidising agents, Aluminium, Reactions with air. Metals

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, Toxic gases/vapours

Other information

Vapours and gases can form an explosive mixture with air.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1'230	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**benzyl alcohol**

Species	rat	
LD50	1230	mg/kg
Source	Food and Cosmetics Toxicology. Vol. 2, Pg. 327, 1964.	

benzyl alcohol

Species	rat	
LD50	1620	mg/kg

Acute dermal toxicity

ATE	2'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**benzyl alcohol**

Species	rabbit	
LD50	2000	mg/kg
Source	Raw Material Data Handbook, Vol. 1: Organic Solvents, 1974. Vol. 1, Pg. 6, 1974.	

Acute inhalational toxicity

ATE	11	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**benzyl alcohol**

Species	rat	
LC50	11.0	mg/l
Administration/Form	Vapors	

benzyl alcohol

Species	rat	
LC50	4178.0	mg/l
Administration/Form	Dust/Mist	

Skin corrosion/irritation (Components)**benzyl alcohol**

Species	rabbit	
evaluation	slightly irritant	
Method	OECD 404	

Serious eye damage/irritation (Components)

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benzyl alcohol

Species	rabbit
evaluation	irritant
Method	OECD 405

Sensitization (Components)**benzyl alcohol**

Species	guinea pig
evaluation	non-sensitizing

Mutagenicity (Components)**benzyl alcohol**

evaluation	No experimental indications on genotoxicity in vivo found.
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Reproduction toxicity (Components)**benzyl alcohol**

evaluation	No negative effects
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Carcinogenicity (Components)**benzyl alcohol**

evaluation	No negative effects
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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****benzyl alcohol**

Species	Fathead minnow (<i>Pimephales promelas</i>)	
LC50	460	mg/l
Duration of exposure	96	h
Method	OECD 203	

benzyl alcohol

Species	Bluegill (<i>Lepomis macrochirus</i>)	
LC50	10	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)**benzyl alcohol**

Species	Daphnia magna	
EC50	230	mg/l
Duration of exposure	48	h
Method	OECD 202	

benzyl alcohol

Species	Daphnia magna	
NOEC	51	mg/l
Duration of exposure	21	d

Algae toxicity (Components)**benzyl alcohol**

Species	Algae	
IC50	770	mg/l
Duration of exposure	72	h

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benzyl alcohol

Species	Pseudokirchneriella subcapitata		
NOEC	310		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**benzyl alcohol**

EC50	390		mg/l
Duration of exposure	24	h	

benzyl alcohol

Species	activated sludge		
IC50	2100		mg/l
Duration of exposure	49	h	

12.2. Persistence and degradability**Biodegradability (Components)****benzyl alcohol**

Value	92	to	96	%
Duration of test evaluation	14	d		
Method	Readily biodegradable OECD 301C			

benzyl alcohol

Value	95	to	97	%
Duration of test evaluation	21	d		
Method	Readily biodegradable OECD 301 A			

Ready degradability (Components)**benzyl alcohol****12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow	1.10
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Bioconcentration factor (BCF) (Components)**benzyl alcohol**

log BCF	1.05
Temperature	20 °C

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.
This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Harmful to aquatic organisms.

SECTION 13: Disposal considerations

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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	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	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 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

National regulations SwitzerlandSwiss Toxicity Class 4
SFOPH T no. G-1250**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.**CLP categories listed in Chapter 3**Acute Tox. 4 Acute toxicity, Category 4
Eye Irrit. 2 Eye irritation, Category 2**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.