



Trade name: Benzylalkohol/Sigma-Aldrich GmbH

Substance number: 711400

Version: 3 / CH

Date revised: 22.06.12

Replaces Version: 2 / CH

Date of printing: 22.06.12

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

### 1.1. Product identifier

Benzylalkohol/Sigma-Aldrich GmbH  
Item-No. 71140004

### 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)

Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 4 H302  
Acute Tox. 4 H332

#### Classification in accordance with EC directives

Classification Xn, R20/22

### 2.2. Label elements

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

#### Hazard pictograms



#### Signal Word

Warning

#### Hazard statements

H302 Harmful if swallowed.  
H332 Harmful if inhaled.

#### Precautionary statements

P271 Use only outdoors or in a well-ventilated area.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### 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



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Harmful

**R phrases**

20/22 Harmful by inhalation and if swallowed.

**S phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

47.4 Keep at temperature not exceeding 4 °C.

6.2 Keep under argon.

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

contains Benzyl alcohol

**3. Composition/information on ingredients****Hazardous ingredients****Benzyl alcohol**

CAS No. 100-51-6

EINECS no. 202-859-9

Concentration  $\geq$  50 %

Classification Xn, R20/22

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

Acute Tox. 4 H332

Acute Tox. 4 H302

**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**

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Keep warm and at rest. If the patient is likely to become unconscious, place and transport in stable sideways position. In the event of symptoms take medical treatment.

**After skin contact**

Wash off immediately with soap and water and rinse well.

**After eye contact**

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

**After ingestion**

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

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

Gastrointestinal complaints, CNS depression, Cardiovascular disturbance

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



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**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.

**5. Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry chemical extinguisher, Water spray jet

**Non Suitable extinguishing media**

Water

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

In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet.

**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.

**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).

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

Pick up with absorbent material. When picked up, treat material as prescribed under heading "Disposal". Ensure adequate ventilation.

**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.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - refrain from smoking.

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

**Further information on storage conditions**

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



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from light.

## **8. Exposure controls/personal protection**

### **8.2. Exposure controls**

#### **Exposure controls**

See chapter 7. No measures exceeding the ones mentioned are 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 filter A.

#### **Hand protection**

Gloves

Gloves

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

Gloves

Appropriate Material	nitrile rubber - NBR
Material thickness	0.4 mm
Penetrating time	>= 8 h

Appropriate Material	Natural Latex
Penetrating time	> 8 h

#### **Eye protection**

Safety glasses with side protection shield

#### **Body protection**

protective overalls

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	Liquid
<b>Colour</b>	colourless
<b>Odour</b>	aromatic
<b>Melting point</b>	
Value	-15 °C
method	DIN 51761
<b>Boiling point</b>	
Value	205 °C
method	DIN 51761
<b>Flash point</b>	
Value	94 to 101 °C
method	DIN 51755
<b>Vapour pressure</b>	
Value	0.013 kPa
<b>Density</b>	
Value	1.048 g/cm <sup>3</sup>
method	DIN 51757



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**Solubility in water**

Value 40 g/l

**Octanol/water partition coefficient (log Pow)**

log Pow 1.1

**Ignition temperature**

Value 435 °C

**Viscosity****dynamic**

Value 5.84 mPa.s

Temperature 25 °C

**9.2. Other information****Other information**

Forms explosive mixture with air are possible.

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

Protect from heat/overheating.

**10.5. Incompatible materials**

Acids, Oxidising agents, Aluminium, Reactions with air. Salts of metals (iron)

**10.6. Hazardous decomposition products****Other information**

Vapours and gases can form an explosive mixture with air.

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**Species rat  
LD50 1620 mg/kg**Acute dermal toxicity**Species rabbit  
LD50  
Remarks No data available.**Acute inhalational toxicity**Species rat  
LC50 > 4178 mg/m<sup>3</sup>  
method OECD 403**Skin corrosion/irritation**

Remarks Irritates the mucous membrane.

**Serious eye damage/irritation**

Remarks Irritates the eyes.

**Sensitization**

Remarks No sensitisation effect known.

**12. Ecological information**



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## 12.1. Toxicity

### Fish toxicity

LC50	460		mg/l
Duration of exposure	96	h	
method	OECD 203		
Species	Bluegill ( <i>Lepomis macrochirus</i> )		
LC50	10		mg/l
Duration of exposure	96	h	
Species	Fathead minnow ( <i>Pimephales promelas</i> )		
	460		mg/l
Duration of exposure	96	h	
Remarks	Harmful to fishes.		

### Daphnia toxicity

Species	Daphnia magna		
EC50	230		mg/l
Duration of exposure	48	h	
method	OECD 202		
Species	Daphnia magna		
NOEC	51		mg/l
Duration of exposure	21	d	

### Algae toxicity

ErC50	770		mg/l
Duration of exposure	72	h	

### Bacteria toxicity

EC50	390		mg/l
Duration of exposure	24	h	

## 12.2. Persistence and degradability

### Biodegradability

valuation Readily biodegradable

## 12.3. Bioaccumulative potential

### Octanol/water partition coefficient (log Pow)

log Pow 1.1

## 12.6. 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.

## 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.

## 14. Transport information

### Land transport ADR/RID

Non-dangerous goods



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**Marine transport IMDG/GGVSee**

The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA**

The product does not constitute a hazardous substance in air transport.

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations Switzerland**

Swiss Toxicity Class	4
SFOPH T no.	G-1250

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

20/22	Harmful by inhalation and if swallowed.
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**Hazard statements listed in chapter 3**

H302	Harmful if swallowed.
H332	Harmful if inhaled.

**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.