

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006*

**BENZYL ALCOHOL**

Version 2.0

Print Date 2011/06/06

Revision Date 2011/06/06

**MSDS code: MBAL100**

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

**1.1. Product identifier**

Trade name : BENZYL ALCOHOL  
 Substance name : benzyl alcohol  
 Index-No. : 603-057-00-5  
 CAS-No. : 100-51-6  
 EC-No. : 202-859-9  
 Registration number : 01-2119492630-38-xxxx

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Recommended restrictions on use : At that time we do not yet have information on use restrictions. They will be included in this safety data sheet when available.

**1.3. Details of the supplier of the safety data sheet**

Company : Brenntag UK & Ireland  
 Albion House, Rawdon Park  
 GB LS19 7XX Leeds Yeadon  
 Telephone : 0113 3879 200  
 Telefax : 0113 3879 280  
 E-mail address : msds@brenntag.co.uk

**1.4. Emergency telephone number**

Emergency telephone number : Emergency only telephone number (open 24 hours):  
 01865 407333 (N.C.E.C. Culham)

**2. Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Acute toxicity	Category 4	---	H332
Acute toxicity	Category 4	---	H302

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Eye irritation

Category 2

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H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Harmful (Xn)	R20/22

For the full text of the R-phrases mentioned in this Section, see Section 16.

Potential environmental effects : See section 12 for environmental information.  
No further information available.

**2.2. Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H319 Causes serious eye irritation.

Precautionary statements

Prevention : P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.

Response : P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P304 + P340 IF INHALED: Remove victim to fresh air

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and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### **Hazardous components which must be listed on the label:**

- benzyl alcohol

### **2.3. Other hazards**

No other information is available.

## **3. Composition/information on ingredients**

### **3.1. Substances**

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
<b>benzyl alcohol</b>				
Index-No. : 603-057-00-5	≤ 100	Acute Tox.4	H332	Xn; R20/22
CAS-No. : 100-51-6		Acute Tox.4	H302	
EC-No. : 202-859-9		Eye Irrit.2	H319	
Registration : 01-2119492630-38-xxxx				

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **4. First aid measures**

### **4.1. Description of first aid measures**

General advice : Remove from exposure, lie down. Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Take off all contaminated clothing immediately. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Consult a physician.

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If inhaled	: Remove to fresh air. Keep patient warm and at rest. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Consult a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If symptoms persist, call a physician.
If swallowed	: Rinse the mouth and spit the fluids out. Immediately give large quantities of water to drink. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms	: Eye irritation
Effects	: No further information available.

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

Treatment	: Treat symptomatically.
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## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet

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

Specific hazards during fire fighting	: In case of fire hazardous decomposition products may be produced such as: Carbon oxides
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### **5.3. Advice for firefighters**

Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
Further information	: Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use

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extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. For personal protection see section 8.

**6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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

Methods and materials for containment and cleaning up : This material and its container must be disposed of as hazardous waste. Ensure adequate ventilation. Soak up with inert absorbent material.

Further information : Treat recovered material as described in the section "Disposal considerations".

**6.4. Reference to other sections**

For personal protection see section 8.

**7. Handling and storage****7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Provide sufficient air exchange and/or exhaust in work rooms. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Take off all contaminated clothing immediately. Do not breathe gas/fumes/vapour/spray. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

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

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Requirements for storage areas and containers : Store in cool place. Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Mild steel; Stainless steel; Unsuitable materials for containers: Aluminium

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Further information on storage conditions : Keep in a well-ventilated place. Keep away from heat.

Advice on common storage : Incompatible with oxidizing agents.

German storage class : 10 Combustible liquids not in Storage Class 3

**7.3. Specific end uses**

Specific use(s) : No information available.

**8. Exposure controls/personal protection**

**8.1. Control parameters**

**Other OELs**

(Additional) Information : Contains no substances with occupational exposure limit values.

**8.2. Exposure controls**

**Personal protective equipment**

*Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).  
Respirator with a gas filter  
Recommended Filter type:A

*Hand protection*

Advice : Wear suitable gloves.  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
Protective gloves should be replaced at first signs of wear.

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Material : butyl-rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.5 mm

Material : fluorocarbon rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.4 mm

### Eye protection

Advice : Safety goggles

### Skin and body protection

Advice : Wear suitable protective clothing.

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## 9. Physical and chemical properties

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

Form : liquid  
Colour : colourless  
Odour : weak aromatic  
Odour Threshold : no data available  
pH : not applicable  
Melting point/range :  $-15$  °C  
Boiling point/boiling range :  $205$  °C  
Flash point : ca.  $101$  °C (Method: DIN 51758)  
Evaporation rate : no data available

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Flammability (solid, gas)	:	not applicable
Upper explosion limit	:	13 %(V)
Lower explosion limit	:	1.3 %(V)
Vapour pressure	:	0.07 hPa (20 °C)
Relative vapour density	:	no data available
Density	:	1.045 g/cm <sup>3</sup> (20 °C)
Water solubility	:	40 g/l (20 °C)
Partition coefficient: n-octanol/water	:	log Kow 1.1 (measured)
Ignition temperature	:	435 °C (DIN 51794)
Thermal decomposition	:	no data available
Viscosity, dynamic	:	6.569 mPa.s (20 °C)
Explosive properties	:	EU legislation: Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	:	none

**9.2. Other information**

No further information available.

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

Advice : No information available.

**10.2. Chemical stability**Advice : No decomposition if stored and applied as directed.  
No further information available.**10.3. Possibility of hazardous reactions**

Hazardous reactions : No information available.



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### 10.4. Conditions to avoid

Thermal decomposition : no data available

### 10.5. Incompatible materials

Materials to avoid : Strong acids and oxidizing agents, Aluminium, Polypropylene, Polyester, Polyvinylchloride

### 10.6. Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Biphenyls, Benzoic acid

## 11. Toxicological information

### 11.1. Information on toxicological effects

Component: benzyl alcohol

CAS-No.  
100-51-6

#### Acute toxicity

##### Oral

LD50 : 1230 mg/kg (rat)

##### Inhalation

LC50 : > 4.178 mg/l (rat; 4 h; dust/mist)

##### Dermal

LD50 : 2000 mg/kg (rabbit)

#### Irritation

##### Skin

Result : No skin irritation (rabbit) (OECD Test Guideline 404)

##### Eyes

Result : Irritating to eyes. (rabbit) (OECD Test Guideline 405)

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These literature data deviate from the classification prescribed by the EC.

### **Further information**

- Other relevant toxicity information : Danger by skin absorption. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.
- Experience with human exposure : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## **12. Ecological information**

### **12.1. Toxicity**

Component: benzyl alcohol	CAS-No.
	100-51-6

#### **Acute toxicity**

##### **Fish**

LC50 : 646 mg/l (Leuciscus idus melanotus; 48 h)

LC50 : 460 mg/l (Pimephales promelas; 96 h)

#### **Toxicity to daphnia and other aquatic invertebrates.**

EC50 : 400 mg/l (Daphnia magna; 24 h)

##### **algae**

EC0 : 640 mg/l (scenedesmus quadricauda; 96 h)

##### **Bacteria**

EC10 : 658 mg/l (Pseudomonas putida; 16 h) (Cell-proliferation inhibition test)

### **12.2. Persistence and degradability**

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MSDS code: **MBAL100****Persistence and degradability****Persistence**

Result : no data available

**Component: benzyl alcohol****CAS-No.****100-51-6****Persistence and degradability****Biodegradability**Result : 92 - 96 % (Exposure Time: 28 d)(OECD 301 C)  
Readily biodegradable.**12.3. Bioaccumulative potential****Component: benzyl alcohol****CAS-No.****100-51-6****Bioaccumulation**

Result : The product has low potential bioaccumulation.

**12.4. Mobility in soil****Mobility**

Result : no data available

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

Result : no data available

**12.6. Other adverse effects****Additional ecological information**

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Result : Do not flush into surface water or sanitary sewer system.

### **13. Disposal considerations**

#### **13.1. Waste treatment methods**

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.
- Contaminated packaging : Empty remaining contents. Dispose of in accordance with local regulations. Dispose of as unused product.
- European Waste Catalogue Number : Waste codes should be assigned by the user based on the application for which the product was used.

### **14. Transport information**

Not dangerous goods for ADR, RID and IMDG.

#### **14.1. UN number**

Not applicable.

#### **14.2. UN proper shipping name**

Not applicable.

#### **14.3. Transport hazard class(es)**

Not applicable.

#### **14.4. Packaging group**

Not applicable.

#### **14.5. Environmental hazards**

Not applicable.

#### **14.6. Special precautions for user**

Not applicable.

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### **14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IMDG : Not applicable.

## **15. Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Notification status**

#### **benzyl alcohol:**

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
INV (CN)	YES	
ENCS (JP)	YES	(3)-1011
JEX (JP)	YES	(3)-1011
ISHL (JP)	YES	(3)-1011
TSCA	YES	
EINECS	YES	202-859-9
KECI (KR)	YES	KE-02570
PICCS (PH)	YES	

### **15.2. Chemical Safety Assessment**

Currently we do not have any Information from our supplier about this.

## **16. Other information**

#### **Full text of R-phrases referred to under sections 2 and 3.**

R20/22 Harmful by inhalation and if swallowed.

#### **Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.

#### **Further information**

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements

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and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.