

**SIGMA-ALDRICH**

**Material Safety Data Sheet**

Version 3.0  
Revision Date 07/20/2007  
Print Date 10/01/2007

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : **Benzyl alcohol**  
Product Number : 108006  
Brand : Aldrich  
Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Benzenemethanol  
Formula : C7H8O  
Molecular Weight : 108.14 g/mol

CAS-No.	EC-No.	Index-No.	Concentration [%]
<b>Benzyl alcohol</b> 100-51-6	202-859-9	603-057-00-5	-

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**  
**OSHA Hazards**  
Delayed target organ effects  
Irritant  
**Target Organs**  
Central nervous system

**HMS Classification**  
Health Hazard: 2  
Chronic Health Hazard:  
Flammability: 1  
Physical hazards: 0

**NFPA Rating**  
Health Hazard: 2  
Fire : 1  
Reactivity Hazard: 0

**Potential Health Effects**

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

**Inhalation**  
**Skin**  
**Eyes**  
**Ingestion**

May be harmful if inhaled. Causes respiratory tract irritation.  
May be harmful if absorbed through skin. Causes skin irritation.  
Causes eye irritation.  
May be harmful if swallowed.

**4. FIRST AID MEASURES**

**General advice**  
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.  
**If inhaled**  
If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.  
**In case of skin contact**  
Wash off with soap and plenty of water. Consult a physician.  
**In case of eye contact**  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**If swallowed**  
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES**

**Flammable properties**  
Flash point 96 °C (205 °F) - closed cup  
Ignition temperature 436 °C (817 °F)  
**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special protective equipment for fire-fighters**  
Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.  
**Environmental precautions**  
Do not let product enter drains.  
**Methods for cleaning up**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Handling**  
Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.  
**Storage**  
Keep container tightly closed in a dry and well-ventilated place.  
Handle and store under inert gas, hygroscopic

RECEIVED

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

OCT 08 2007

Safety & Env  
H



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid, clear  
Colour colourless

### Safety data

pH no data available  
Melting point -15 °C (5 °F)  
Boiling point 90 - 93 °C (194 - 199 °F) at 13 hPa (10 mmHg)  
205 °C (401 °F) at 1,013 hPa (760 mmHg)  
Flash point 96 °C (205 °F) - closed cup  
Ignition temperature 436 °C (817 °F)  
Lower explosion limit no data available  
Upper explosion limit no data available  
Vapour pressure 5,00 hPa (3,75 mmHg) at 77 °C (171 °F)  
17,7 hPa (13,3 mmHg) at 100 °C (212 °F)  
0,125 hPa (0,094 mmHg) at 25 °C (77 °F)  
Density 1,044 g/cm<sup>3</sup>  
Water solubility 33 g/l at 20 °C (68 °F)  
Partition coefficient: log Pow: 1,1  
n-octanol/water  
Vapour density 3,73  
- (Air = 1,0)

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions. hygroscopic

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 3 of 6

Aldrich - 108006  
Delivery 0826915387-000010 Purchase Order 336905

### Conditions to avoid

A mixture of benzyl alcohol and 58% sulfuric acid decomposed violently when heated to 180°C. Benzyl alcohol containing 1.4% hydrogen bromide and 1.1% of an iron(II) salt polymerized exothermally when heated above 100°C.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

**Hazardous decomposition products formed under fire conditions.**  
Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 1,230 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity), Behavioral:Excitement, Behavioral:Coma.

LD50 Dermal - rabbit - 2,000 mg/kg

### Irritation and corrosion

Skin - rabbit - Skin irritation - 24 h

### Sensitisation

no data available

### Chronic exposure

no data available

### Signs and Symptoms of Exposure

Central nervous system depression

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Target Organs</b>	Central nervous system.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability Biotic/Aerobic

### Ecotoxicity effects

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 55 mg/l - 24 h

### Further information on ecology

no data available

RECEIVED

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Aldrich - 108006  
Delivery 0826915387-000010 Purchase Order 336905

Page 4 of 6

OCT 08 2007  
Safety & Env  
Hr



### 13. DISPOSAL CONSIDERATIONS

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### DOT (US)

UN-Number: 3334 Class: 9  
Proper shipping name: Aviation regulated liquid, n.o.s. (Benzyl alcohol)

#### IMDG

Not dangerous goods

#### IATA

UN-Number: 3334 Class: 9  
Proper shipping name: Aviation regulated liquid n.o.s. (Benzyl alcohol)

### 15. REGULATORY INFORMATION

#### OSHA Hazards

Delayed target organ effects, Irritant

#### TSCA Status

On TSCA Inventory

#### DSL Status

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzyl alcohol	100-51-6	1991-07-01

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzyl alcohol	100-51-6	1991-07-01

#### New Jersey Right To Know Components

	CAS-No.	Revision Date
Benzyl alcohol	100-51-6	1991-07-01

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

### 16. OTHER INFORMATION

#### Further information

Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only., The above

information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

RECEIVED

OCT 08 2007

Safety & E  
F

