

# Safety Data Sheet

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

Revision Date: 02/26/2021  
Print Date: 08/29/2021

### 1.1 Production identifiers

Product name : BENZYL ALCOHOL  
Brand : CJ Chemicals LLC  
CAS-No. : 100-51-6

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

Identified uses : Laboratory chemicals, synthesis of substances

### 1.3 Details of the supplier of the safety data sheet

Company : CJ Chemicals LLC  
3469 E Grand River Rd #112  
Howell, MI 48843  
United States

Telephone : +1 (888) 274-1044

### 1.4 Emergency Telephone

Emergency Phone # : 1-800-424-9300 CHEMTREC (USA)  
1-703-527-3887 CHEMTREC (international) 24 hours/day; 7 days/week

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## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

Target Organ Effect, Harmful by ingestion., Harmful by skin absorption., Irritant

#### Target Organs

Central nervous system

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 + H312

Harmful if swallowed or in contact with skin.

H315

Causes skin irritation.

H332

Harmful if inhaled.

H401

Toxic to aquatic life.

Precautionary statement(s)

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.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing.

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312

Call a POISON CENTER or doctor/physician if you feel unwell.

P322

Specific measures (see supplemental first aid instructions on this label).

P330

Rinse mouth.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P362

Take off contaminated clothing and wash before reuse.

P501

Dispose of contents/container to an approved waste disposal plant.

### HMIS Classification

Health hazard:

2

**Chronic Health Hazard:** \*  
**Flammability:** 1  
**Physical hazards:** 1

**NFPA Rating**

**Health hazard:** 2  
**Fire:** 1  
**Reactivity Hazard:** 1

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** Harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Harmful if swallowed.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Benzenemethanol  
Formula : C<sub>7</sub>H<sub>8</sub>O  
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 | -             |

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**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.

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**5. FIRE-FIGHTING MEASURES**

**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.

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**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 and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas. hygroscopic

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

| Components     | CAS-No.  | Value | Control parameters | Update     | Basis   |
|----------------|----------|-------|--------------------|------------|---|
| Benzyl alcohol | 100-51-6 | TWA   | 10 ppm             | 2008-01-01 | USA. Workplace Environmental Exposure Levels (WEEL) |

**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**

Face shield and 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 -16 - -13 °C (3 - 9 °F)

Boiling point 203 - 205 °C (397 - 401 °F)

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 1.045 g/mL at 25 °C (77 °F)

Water solubility 33 g/l at 20 °C (68 °F)

Partition coefficient: log Pow: 1.1

n-octanol/water  
Relative vapour density 3.73  
- (Air = 1.0)

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## 10. STABILITY AND REACTIVITY

### Chemical stability

hygroscopic Stable under recommended storage conditions.

### 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

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## 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

### Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure (GHS)

no data available

### Specific target organ toxicity - repeated exposure (GHS)

no data available

### Aspiration hazard

no data available

### Potential health effects

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May be harmful if inhaled. Causes respiratory tract irritation. |
| <b>Ingestion</b>  | Harmful if swallowed.   |
| <b>Skin</b>       | Harmful if absorbed through skin. Causes skin irritation.       |

**Eyes**

Causes eye irritation.

**Signs and Symptoms of Exposure**

stupor, narcosis

**Additional Information**

RTECS: DN3150000

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**12. ECOLOGICAL INFORMATION****Toxicity**

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

**Persistence and degradability**Biodegradability Biotic/Aerobic  
Result: 92 - 96 % - Readily biodegradable.**Bioaccumulative potential****Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid, n.o.s. (Benzyl alcohol)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

UN-Number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid, n.o.s. (Benzyl alcohol)

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**15. REGULATORY INFORMATION****OSHA Hazards**

Target Organ Effect, Harmful by ingestion., Harmful by skin absorption., Irritant

**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 | 1993-04-24    |

**Pennsylvania Right To Know Components**

|                | CAS-No.  | Revision Date |
|----------------|----------|---------------|
| Benzyl alcohol | 100-51-6 | 1993-04-24    |

**New Jersey Right To Know Components**

|                | CAS-No.  | Revision Date |
|----------------|----------|---------------|
| Benzyl alcohol | 100-51-6 | 1993-04-24    |

**California Prop. 65 Components**

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

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**16. OTHER INFORMATION****Further information**

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. CJ Chemicals LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cjchemicals.com](http://www.cjchemicals.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.